

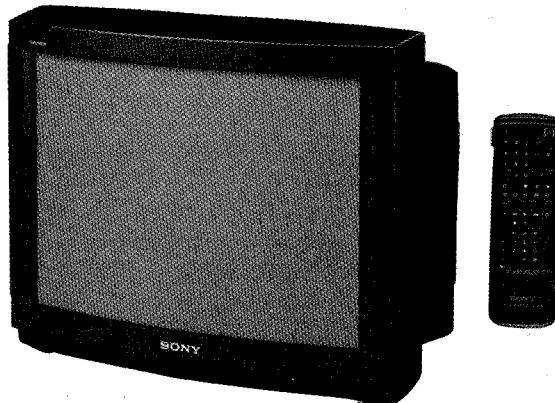
KV-A2911D

RM-816

SERVICE MANUAL

AEP Model

Chassis No. SCC-E18H-A



AE-1C CHASSIS

MODELS OF THE SAME SERIES	
KV-A2911D	

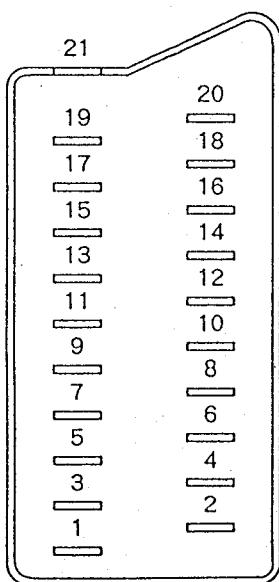
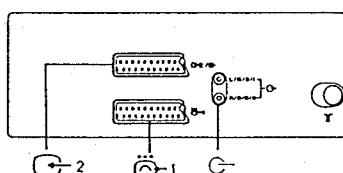
SPECIFICATIONS

Television system	B/G/H	Sound output	30 W + 30 W
Color system	PAL, SECAM, NTSC3.58, NTSC4.43	Power consumption	114Wh
Stereo system	GERMAN stereo	Dimensions incl.speakers	Approx. 761×568×512 mm (w/h/d)
Channel coverage	VHF: E1-E10.	Weight incl.speakers	Approx. 55kg
Picture tube	Black Trinitron tube		
	Approx. 72.4 cm (Approx. 68 cm picture measured diagonally)		
	110 ° -degree deflection		
Inputs	⊗ 1 21-pin connector: including CENELEC standard including RGB input.	【RM-816】	infrared control
	⊗ 2 21-pin connector: including S video input	Remote control system	3V dc
	Front : ⊗ 3 Audio and video input jacks: phono jack. Including S Video input	Power requirements	2 batteries IEC designation R6 (size AA)
	Y: 1Vp-p±3dB 75ohm	Dimensions	Approx. 75×221×23mm(w/h/d)
Outputs	C: 0.3Vp-p±3dB 75ohm	Weight	Approx. 230g (including batters)
	21-pin connector: CENELEC standard	Accessories supplied	IEC designation R6 batteries (2)
	Headphones jack: stereo minijack	Supplied accessories	RM-816 Remote Commander (1) IEC designation R6 batteries (2)
	External speaker terminals: 2-pin DIN		
	Audio output jacks: phono jack (output dependent upon TV settings)		
		Design and specifications are subject to change without notice.	



TRINITRON® COLOR TV
SONY®

21 pin connector (Pin 1, Pin 2)



Pin No	1	2	Signal	Signal level
1	○	○	Audio output B (right)	Standard level: 0.5Vrms Output impedance: Less than 1kohm*
2	○	○	Audio input B (right)	Standard level: 0.5Vrms Input impedance: More than 10kohms*
3	○	○	Audio output A (left)	Standard level: 0.5Vrms Output impedance: Less than 1kohm*
4	○	○	Ground (audio)	
5	○	○	Ground (blue)	
6	○	○	Audio input A (left)	Standard level: 0.5Vrms Input impedance: More than 10kohms*
7	○	●	Blue input	0.7V±3dB, 75ohms, positive
8	○	○	Function select (AV control)	High state (9.5-12 V): Part mode Low state (0-2 V): TV mode Input impedance: More than 10kohms Input capacitance: Less than 2 nF
9	○	○	Ground (green)	
10	○	○	Open	
11	○	●	Green	Green signal: 0.7V±3dB, 75ohms, positive
12	○	○	Open	
13	○	○	Ground (red)	
14	○	○	Ground (blanking)	
15	○	-	Red input	0.7V±3dB, 75ohms, positive
	-	○	(S signal) croma input	0.3V±3dB, 75ohms, positive
16	○	●	Blanking input (Ys signal)	High state (1-3 V) Low state (0-0.4 V) Input impedance: 75ohms
17	○	○	Ground (video output)	
18	○	○	Ground (video Input)	
19	○	○	Video output	1V±3dB, 75ohms, positive Sync: 0.3V (-3, +10dB)
20	○	-	Video input	1V±3dB, 75ohms, positive Sync: 0.3V (-3, +10dB)
	-	○	Video Input/Y (S signal)	1V±3dB, 75ohms, positive Sync: 0.3V (-3, +10dB)
21	○	○	Common ground (plug, shield)	

○ connected ● unconnected (open)

* at 20 Hz-20 kHz

4 pin connector (Pin 5)

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V±3dB 75ohm, positive Sync 0.3V±3dB
4	C (S signal) input	0.3V±3dB 75ohm positive

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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

CAUTION

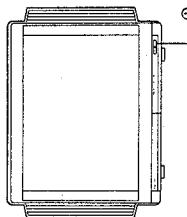
SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SECTION 1 GENERAL

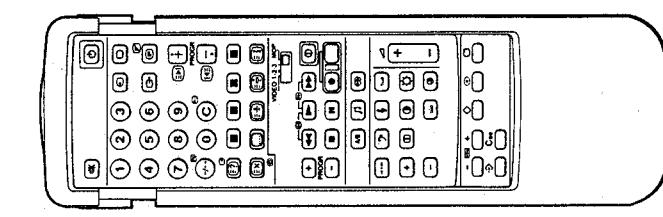
1-1. TURNING THE TV UNIT ON AND OFF

After you have completed the basic preparation your TV is ready to be connected to the mains power supply (220/240V, 50Hz).

Action	Result
1 Press  on the TV.	The TV will turn on. Note: If the screen remains blank, the TV may be in the standby mode. Press  to switch it on.



Action	Result
A Temporarily Press  on the TV set.	The TV will be in the standby mode. To return to the TV mode press  .
B Completely Press  on the TV set.	The TV will be turned off.



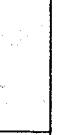
1-2. TV CHANNEL PRESETTING

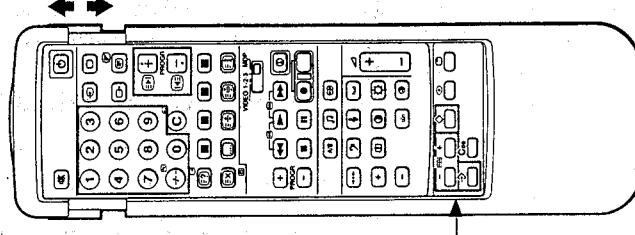
After installing the TV set, TV channels must be preset.

TV broadcasting stations broadcast their programmes on certain fixed frequencies (channels). In order to receive these programmes it is necessary to search for the relevant broadcasting station and to set record it as a channel. The "programme number" is the number that the user decides to associate with a certain channel. For channel settings there are 60 positions available in the memory. In this way all stations broadcasting within the user's country can be received and recorded as a channel.

TV channels automatic presetting

If you are unfamiliar with the transmission frequency of the channels you wish to preset, refer to the section "TV channels automatic presetting". However, if you want to tune them using the frequency of each channel, go to the section "Direct TV channel setting". To select a button on the "complete" side, take out the remote control unit from its case to reveal the preset buttons, as shown in the illustration.

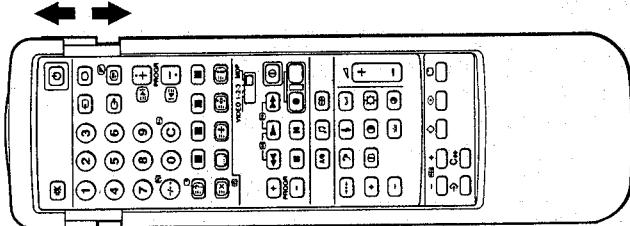
Operation	Result
1 Press  to begin the preselection.	The programme number flashes. 
2 Press PROG + / - or the remote control unit number buttons to select the channel number to which you want to preset the station.	The programme number on the screen changes. 
NOTE: To select a 2-figure number, press the +/- button. E.g., if you wish to select number 23, press +/- first, and then 2 and 3.	
3 To search for broadcasting stations press  + and - buttons.	When a broadcasting station is tuned correctly, the search will stop. If you want to skip it, press  + or - again. 
4 Press  to memorize the channel to which the broadcasting station is tuned.	All data disappears from the screen. 
5 Press  to memorize other broadcasting stations repeat steps from 1 to 4.	To memorize other broadcasting stations repeat steps from 1 to 4. 



Note: Utilizzare i tasti indicati nell'illustrazione solo quando preselezionate canali.

Direct TV channel setting

Operation	Result
1 Press \Rightarrow to begin the presetting.	
2 Press PROGR + / - or the number buttons on the remote control unit to select the channel number to which you want to preset the station.	
Note To select a 2-figure number press +/- button. E.g., if you wish to select number 23, press +/- first, and then 2 and 3.	
3 Press C. If you wish to select a cable station, press C twice.	
4 By using the number buttons of the remote control unit select the channel number, always with two figures (for "4", press "04"). Note: Press the second number within 5 seconds of the first. After 5 seconds the operation is cancelled.	
5 Press \diamond to memorize the channel to which the station is tuned.	
To memorize other broadcasting stations repeat the above procedure.	



Broadcasting station identification

By associating a name with a certain broadcasting station it is possible to avoid having to remember, each time, in which channel number that particular station has been memorized.

Five different characters are available for station identification.

Operation	Result
1 By using PROGR + or - or the number keys of the remote control unit, select the programme number to be set for identification.	
2 Press \Rightarrow	
3 Press \square	
4 Press the + or - buttons to select a letter of the alphabet, a number, or a blank space.	
5 Press \square	
6 Repeat steps 4 and 5, and fill all five available spaces.	
7 Press \diamond .	

Temporary channel tuning

It is possible to temporarily memorize a channel, even if it has not been preset.

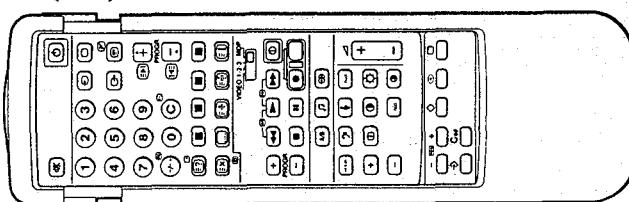
Operation	Result
1 Press C.	"C" ("S" for cable stations) indication appears on the screen.
2 Using the number keys of the remote control unit select the channel number, always with two figures (e.g., "04" for channel "4").	The channel will be received, but it will not be set as a programme number.

1-3. BASIC FUNCTIONS

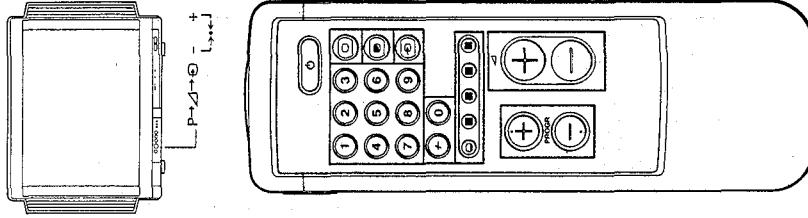
Skipping channels

Using the PROGR + / - buttons you can skip unused programme numbers. However, the skipped numbers may still be called up using the number buttons.

Operation	Result
1 Press \Rightarrow to begin presetting.	The programme number begins to flash on the screen. 
2 By using the PROGR + and - buttons, or the number keys of the remote control unit, select the programme number you wish to skip. 	The programme number changes. 
3 Press Coo .	Under the programme number, the lowest channel number appears. 
4 Press \diamond .	All indications under the programme number disappear from the screen. The skipped programme number will be memorized. 



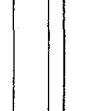
Per aprirlo premete sulla freccia. (→)



This section introduces you to the basic control functions which are available on the "simple" side of the remote control unit.

Programme selection

Before selecting programmes make sure that TV channels have been memorized.

<p>Operation</p> <p>Press PROGR +/- buttons or the number keys of the remote control unit.</p> <p>To select a 2-figure number press +/- button.</p> <p>E.g., if you wish to select number 23, press +/- first, and then 2 and 3.</p>	<p>Result</p> 
<p>Volume control</p>	<p>Result</p> 
<p>Operation</p> <p>Press $\Delta +$ or $\Delta -$.</p>	<p>Result</p> 

Use of additional functions

Use of other functions with the TV set buttons

It is also possible to select programmes and to adjust the volume by using $\text{P} \rightarrow \Delta \rightarrow \text{G}$ and $\leftarrow \rightarrow$ or - buttons, located on the front panel of the TV set. In this case, press first $\text{P} \rightarrow \Delta \rightarrow \text{G}$ until the indication P (channel) or Δ (volume) appears on the screen, and then press $\leftarrow \rightarrow$ or - buttons.

Use of teletext service

Press **Q**. To return to the TV mode, press **O**. For further information on the teletext service.

Selection of the video input

Please call or write to the U.S. Office of Personnel, Washington, D.C., for further details.

Note: Manual fine tuning will be needed when the channel is selected again.

Operation	Result
Press + or - repeatedly until the picture is at the optimum.	The indication appears on the screen.
Press to start preselection.	The programme number starts flashing on the screen.
Press .	Manual fine tuning has been memorized.

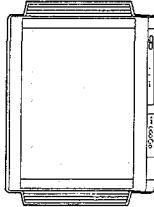
1-4. SPECIAL FUNCTIONS

This section explains the use of functions for adjusting pictures and sound.
Use the "complete" side of the remote control unit.

Use of special functions

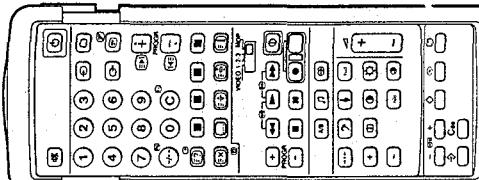
The following functions can be used.

Function	Operation	Result
Indication display	Press Q .	Press Q again.
Sound muting	Press # .	Press # again.
Language selection for bilingual programmes.	Press A/B . The selected language is displayed by the relevant indication on the screen.	Press A/B .
Sound adjustment for music programmes.	Press J .	Press J again.
Use of special sound effects.	Press ⊕ .	Press ⊕ again.
Time display (only during teletext broadcasting).	Press Q .	Press Q again.



The following functions can be used.

Function	Operation	Result
Indication display	Press Q .	Press Q again.
Sound muting	Press # .	Press # again.
Language selection for bilingual programmes.	Press A/B . The selected language is displayed by the relevant indication on the screen.	Press A/B .
Sound adjustment for music programmes.	Press J .	Press J again.
Use of special sound effects.	Press ⊕ .	Press ⊕ again.
Time display (only during teletext broadcasting).	Press Q .	Press Q again.



Picture and sound adjustment

To Adjust:	Press:	Then:	Result: (+ ↔ -)
Picture:			
Colour Intensity	Q	+	More ↔ Less
Contrast	Q	+	More ↔ Less
Brightness	Q	-	Bright ↔ Dark
Hue (for NTSC only)	Q	-	Reddish ↔ Greenish
Sharpness	Q	-	More ↔ Less
Sound:			
Bass	J	+	More ↔ Less
Treble	J	-	More ↔ Less
Balance	J	-	Left ↔ Right

To reset the picture and sound to factory set levels, press **→↔+**.
On the set: Press the **→↔-** and **+/-** buttons simultaneously.

1-5. USE OF THE TELETEXT SERVICE

Through the teletext service a great deal of information can be received at any time. Broadcasting stations make this service available through TV broadcasts. To use the teletext service, use the green keys on the "complete" side of the remote control unit. When the "simple" side of the remote control unit is used, only the basic functions are available.

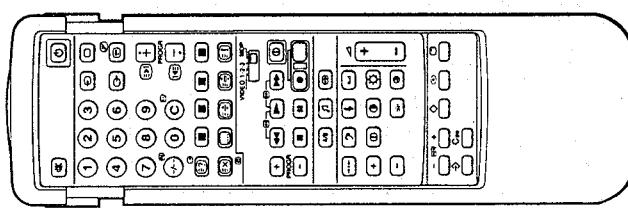
How to display teletext service		
Operation		Result
1	Select the channel you want to watch.	The channel changes on the screen.
2	Press Q .	If there is no teletext signal, the indication "Page 100" appears on the screen.
3	Use the number keys of the remote control unit to insert the three figures corresponding to the desired teletext page. Note In case of a mistake, press any three numbers, and then repeat the operation with the correct numbers.	The selected page number appears on the screen. After a few seconds, the selected page appears on the screen.
To return to normal TV programmes: Press C .		
To change teletext channel: First press O to return to the TV mode, and then repeat steps 1 to 3.		
Note: A weak TV signal may cause trouble in the use of teletext.		
Use of special teletext functions		
Page index required.	Press Q (INDEX).	Page index appears.
Sub-pages required (page 888).	Press Q .	The sub-page appears (page 888).
Access to previous or following pages.	Press Q (PAGE +) or Q (PAGE -).	The preceding or the following page appears.
P201	P201	

Use of the FASTEXT function	
Required function	Operation
Superimposition of the teletext on the TV programme.	In the TV mode, press  twice. Teletext information will appear superimposed on the TV programme.
To prevent page changes due to page updating.	Press  (STILL). Press  (TXT/MIX) to return to the normal function.

Note:
The correct use of the FASTEXT function depends on the signal being broadcast by the TV stations. Some TV stations may not broadcast FASTEXT teletext signal.

Operation

Operation	Result
Press one of the coloured keys on the remote control unit corresponding to the coloured indications of the FASTEXT teletext page.	The selected teletext page appears on the screen.



Required function	Operation	Result (on the screen)
Superimposition of the teletext on the TV programme.	In the TV mode, press  twice. To return to the normal teletext function press  again.	Teletext information will appear superimposed on the TV programme.
To prevent page changes due to page updating.	Press  (STILL). Press  (TXT/MIX) to return to the normal function.	The  symbol appears on the screen.
Magnification of teletext characters.	Press  once to magnify the upper half of the screen. Press  twice to magnify the lower half of the screen. By pressing the button three times the normal vision is restored.	The upper or the lower half of the page is magnified.
Display of hidden information (answers to quizzes, etc.).	Press  (RIV). Press again to hide the answers.	The information is displayed.
Watching a programme while the teletext searches for the required page.	1. Ask again for the page. 2. Press  3. When the required page has been found, the page number will be displayed. 4. Press  to display the page.	The number is displayed. TV programme is displayed. P201 The desired page will be displayed.
Display of a page at a preset time.	1. Request the page. 2. Press  (MEM.T.). 3. Set the required time by using the number keys, and by inputting four figures (e.g. 0730 for "7:30").	The selected page will be displayed. In the lower part of the screen the indication "****" appears. The required time is displayed on the screen.
		To watch TV programmes until a preset time Press  (CANC). At the required time, the selected page appears in the upper part of the screen. Press  to display the page. To cancel the request Display the teletext page and then press  (CANC.M.).

Note: Depending on the teletext service, certain functions may not be available.

1-6. CONNECTIONS AND OPTIONAL FUNCTIONS

This TV set may be connected to other audio/video machines, such as videocameras, VTRs, videodisc players, or stereo systems.

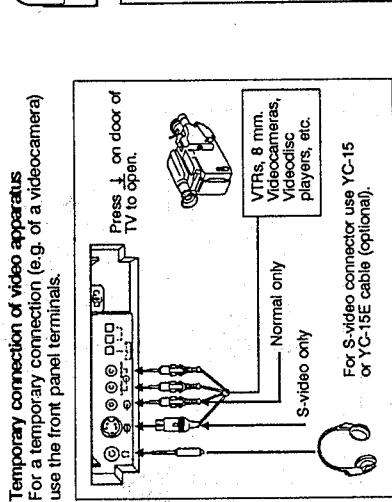
Connection to an external audio/video system

This TV set incorporates three groups of connectors, for input and output to the TV signal. Each group has the following characteristics.

Connector	Input signal	Output signal
G-1	Normal audio/video signal or RGB signal	TV tuner audio/video signal
G-2(G-)	Normal audio/video signal and S-video signal	Audio/video signal from a selectable source
-G, -D, -front panel	Normal audio/video signal and S-video signal	No signal

Connection of a TV set

Temporary connection of video apparatus
For a temporary connection (e.g. of a videocamera) use the front panel terminals.

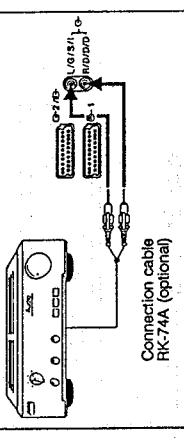


Connection of a videotape recorder through the 'T' connector

Connect the antenna input (AERIAL-IN) of the TV set to the antenna output (AERIAL-OUT) of the videotape recorder.

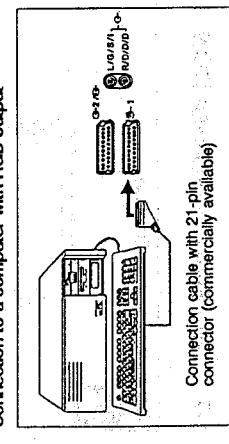
Connection of an audio unit

S-video input (YC input)
The video signal is formed by two separate signals: the luminance (Y) and the chrominance (C). Through the separation of the two signals it is possible to improve picture quality (luminance in particular), preventing reciprocal interference. This TV set features two S-video sockets able to directly receive this type of signal.



Connection to a computer with RGB output

Pictures with distortion
Move the TV set away from the videotape recorder if pictures or sound become distorted.



Video programme playback

Using the input selector, pictures coming from a videotape recorder connected to the TV sets input may be played back.

Operation

Select the desired video input by pressing **G** repeatedly.

Press **O** button to return to TV mode.

Selectable inputs

Symbol

Selected input

Result

The symbol of the selected input appears on the screen (see table below).

Selection of video output

The G-2(G-) connector may output 4 video signals. Select the outgoing video signal in the following way.

Operation

Press **G** repeatedly to select the desired video output.

In this case, first select **G**, and then press the +/ - buttons to select the desired input.

Symbol

Result

Selected output

The selected video output symbol appears on the screen (see the table following).

Symbol

Result

Selected output

Audio/video signal from G-1 connector.

Audio/video signal from G-2(G-) connector.

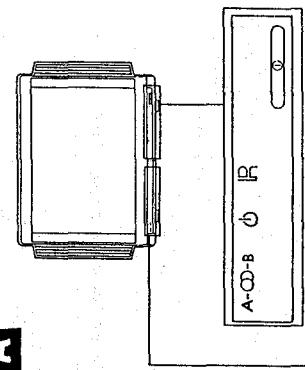
Audio/video signal from G and D connectors.

Audio/video signal from T-type antenna connector **T**.

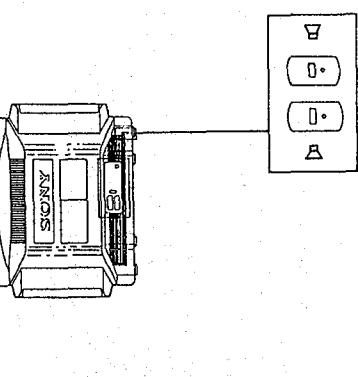
1-7. GENERAL INFORMATION

Components identification

A

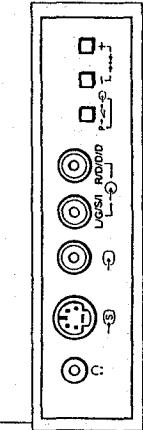


B

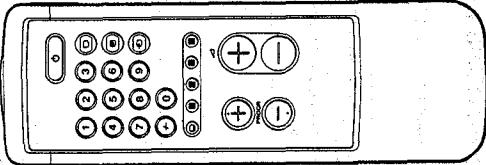


This section briefly describes controls of the TV set and the remote control unit, and their relevant functions.

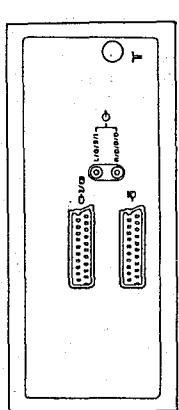
C



C



D



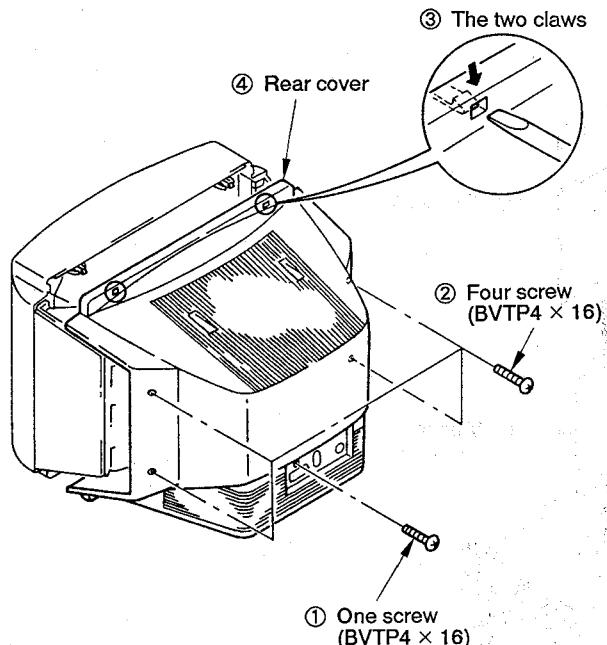
D

A TV set front panel		D Remote control unit — complete side	
Indication	Description	Indication	Description
Φ	Power switch	Φ	Sound muting key
Φ	Standby switch	Φ	Standby key
A-CO-B	Bilingual function Indicators	1,2,3,4,5, 6,7,8,9,0	Number keys
Ω	Headphones connector (stereo mini-jack)	□	Input selector
—□—□—□	Input connectors (S-video/video/audio)	□	TV set power switch and TV mode selector
P—△—□—□	Function selector (programme/volume/input)	□	Output selector
— + — □ — □	Function adjustment keys	□	Teletext key
— + — □ — □		□	Music programme key
		A/B	Bilingual programmes language selection
		—..	Channel selection key/ 2-figure programmes
		C	Channel direct selection key
		□	Special sound effect key
		□	Time display
		□	Teletext operation keys
		□	FASTEXT operation buttons
		□	Display key
		□	Roser key
		△ + /-	Volume adjustment keys
		PROGR +/-	Programme selection keys
		□	Image and audio adjustment keys
		VIDEO 1/2/3, MDP	Video unit selector
		▼ ▲ ▶ ▷	Video units function key
		CO	Programme cancelling key
		□	Channel presenting key
		□	TV set power switch and TV mode selector
		□	Standby key
		□	Channel storing keys
		□	Broadcasting stations identification key
		1,2,3,4,5, 6,7,8,9,0	Number keys
		—..	Channel selection key/ 2-figure programmes
		△ + /-	Volume adjustment key
		PROGR +/-	Programme selection key

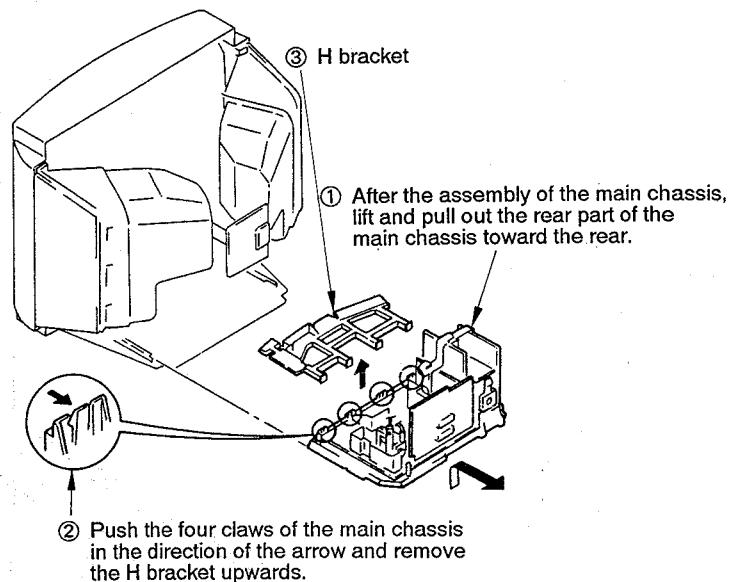
SECTION 2

DISASSEMBLY

2-1. REAR COVER REMOVAL

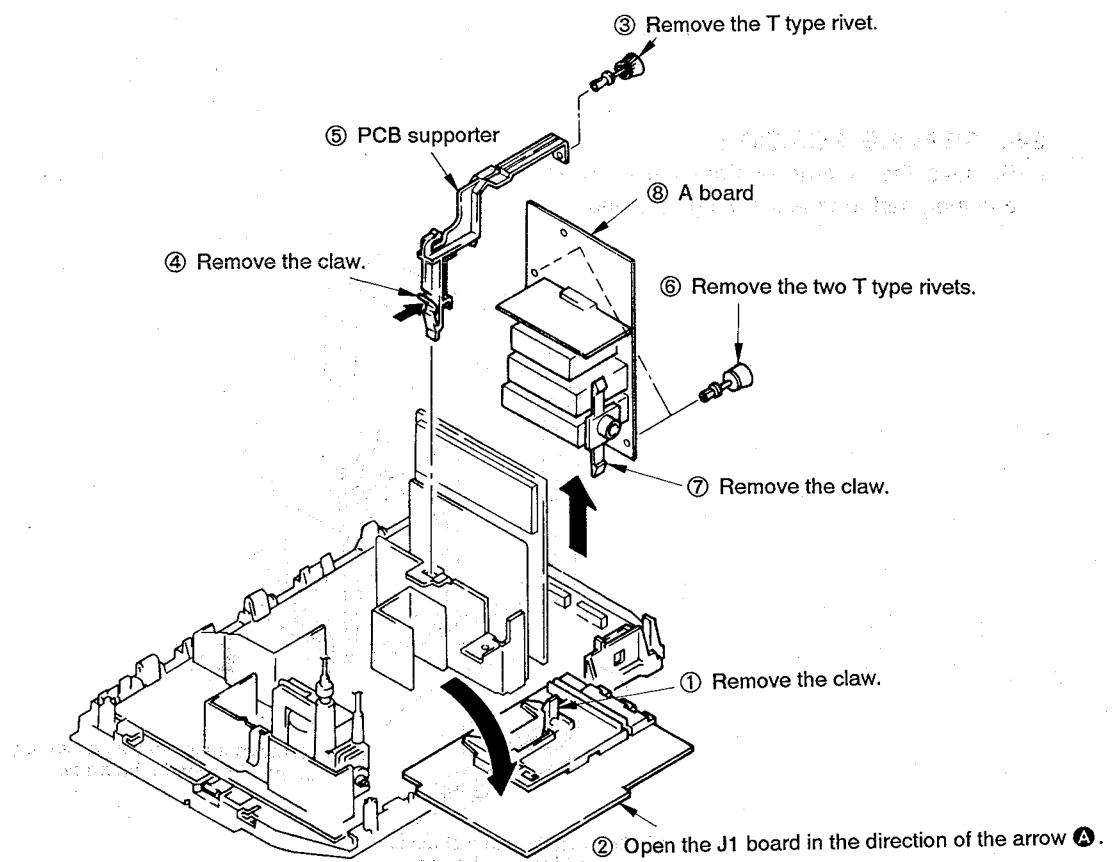


2-2. CHASSIS ASSEMBLY REMOVAL

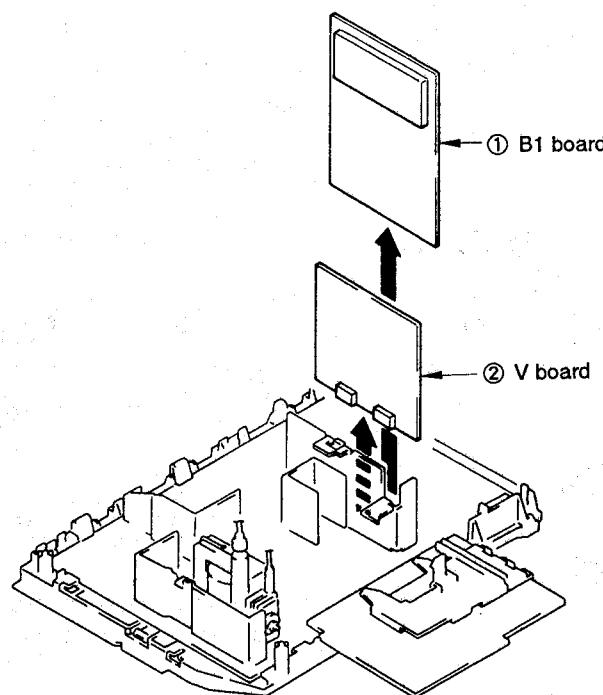


* Remove the H bracket from the main assembly and then perform the following servicing.

2-3. A AND J1 BOARDS REMOVAL

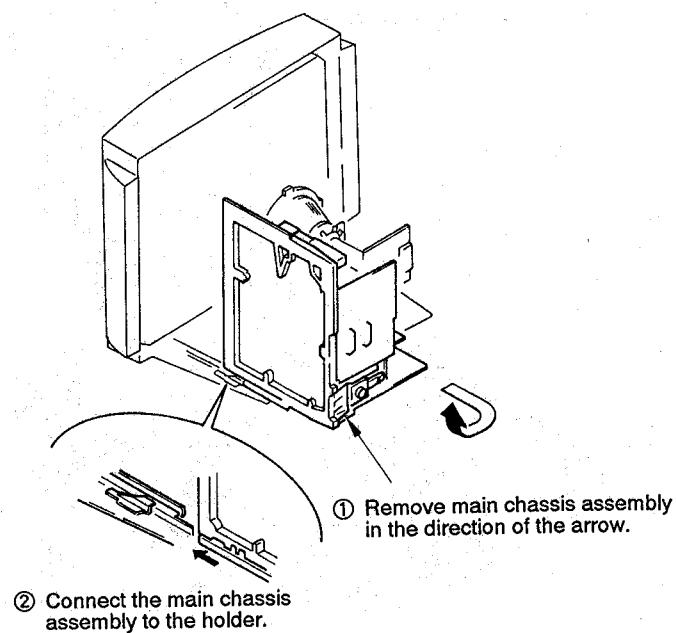


2-4. B1 AND V BOARDS REMOVAL



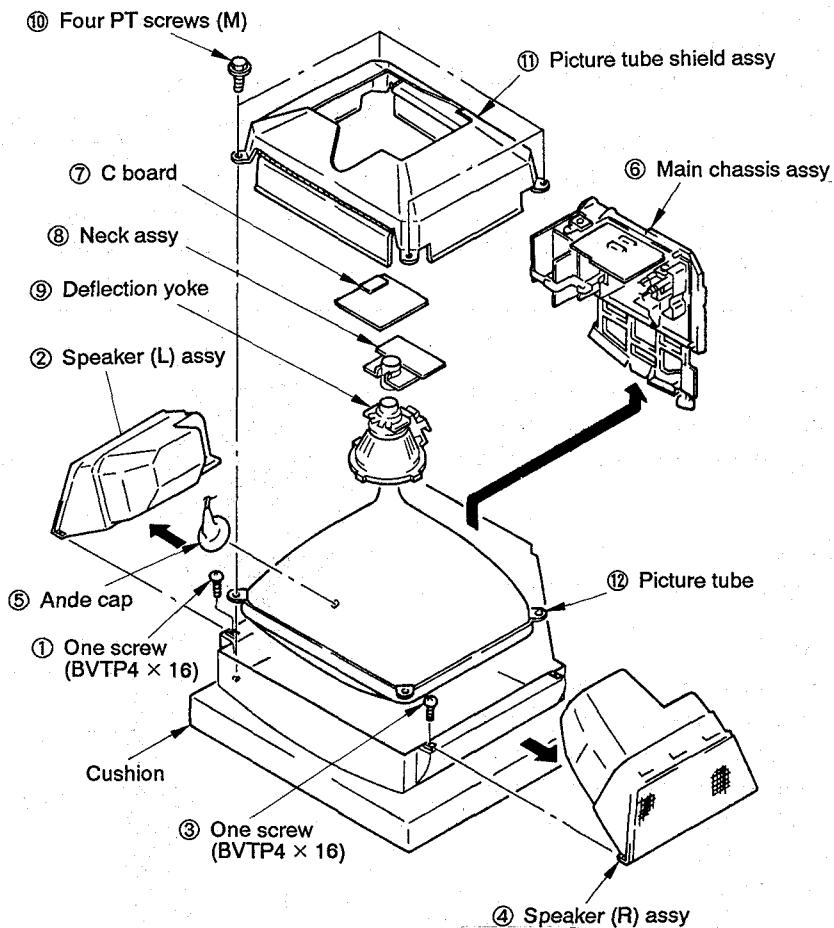
2-5. SERVICE POSITION

※ Remove the H bracket from the main assembly
and then perform the following servicing.



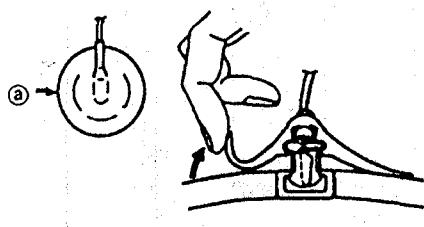
② Connect the main chassis assembly to the holder.

2-6. PICTURE TUBE REMOVAL

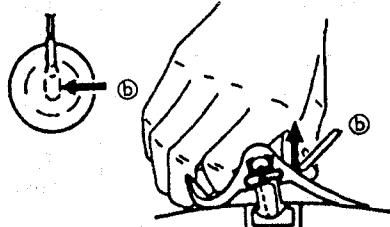


• REMOVAL OF ANODE-CAP

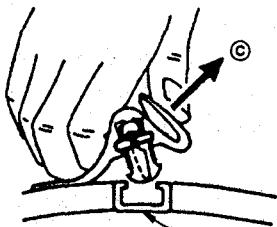
• REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ②.



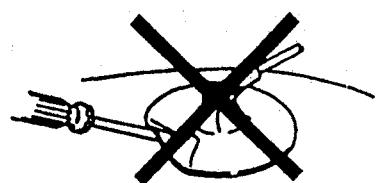
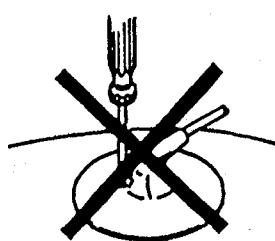
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⑤.



③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⑥.

• HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.



SECTION 3

SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there is specific instruction to the contrary, carry out these adjustments with the rated power supply.
- Unless there is specific instruction to the contrary, set the controls and switches this way :
 - Contrast 80%
(or remote control normal)
 - Brightness 50%

- Carry out the following adjustments in this order:
 - Beam landing
 - Convergence
 - Focus
 - White balance

Note : Testing equipment required

- Color bar/pattern generator
- Degausser
- DC power supply
- Digital multimeter
- Oscilloscope

Preparations :

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

- Input the white signal with the pattern generator.
 Contrast |
 Brightness | normal
- Position neck ass'y as shown in Fig 3-2.
- Set the pattern generator raster signal to red.
- Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side.
(See Figures 3-1 through 3-3.)
- Move the deflection yoke forward and adjust so that entire screen is red. (See Figure 3-1.)
- Switch the raster signal to blue, then to green and verify the condition.
- When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
- If the beam does not land correctly in all the corners, use a magnet to adjust it.
(See Figure 3-4.)

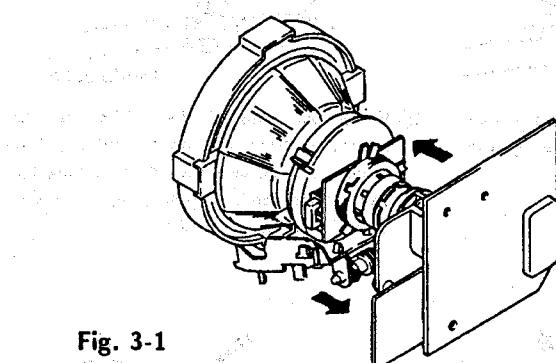


Fig. 3-1

Fig. 3-2

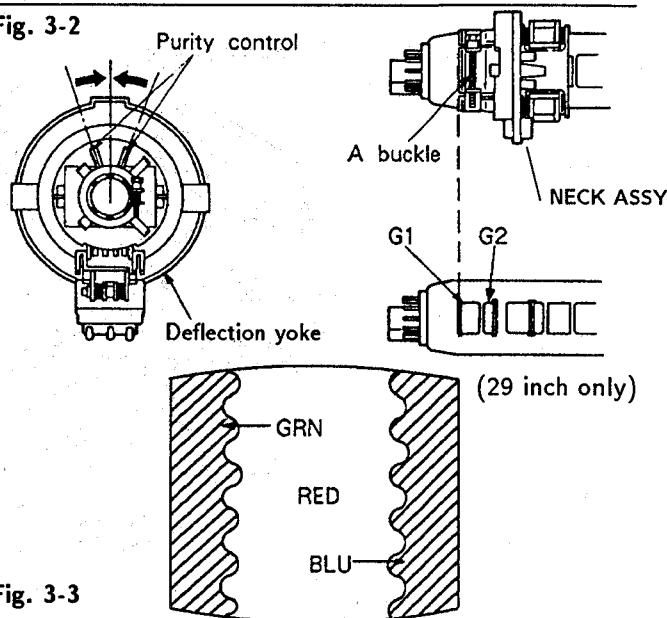


Fig. 3-3

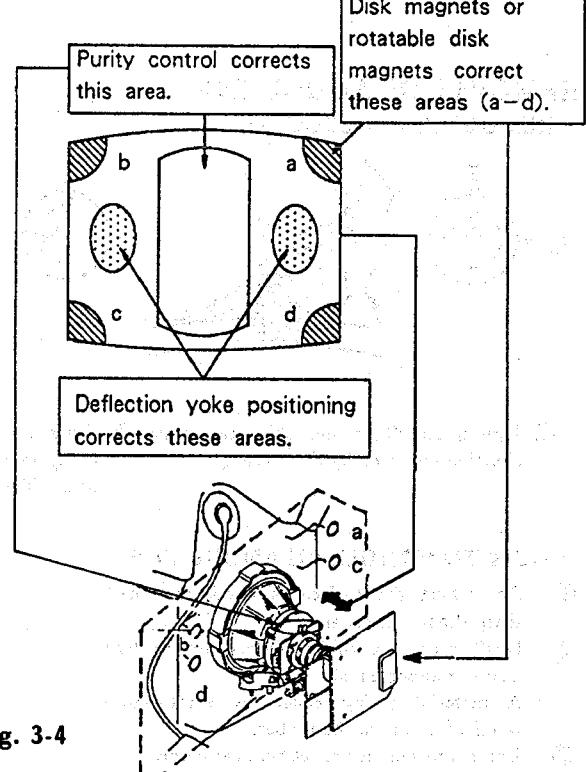


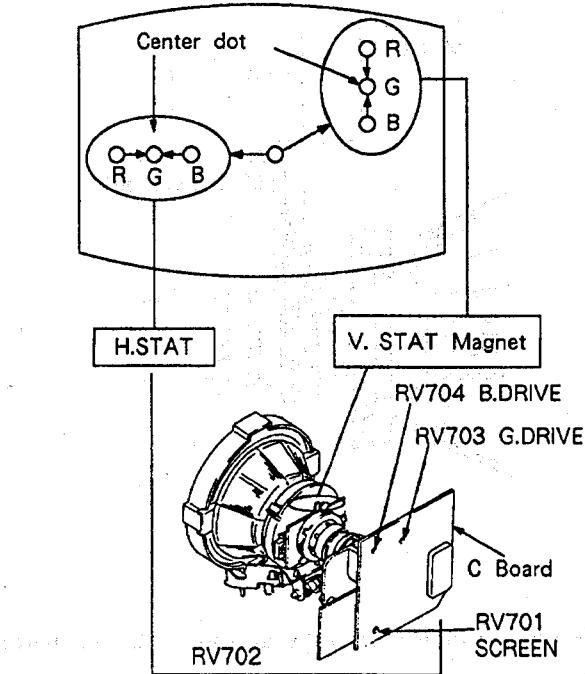
Fig. 3-4

3-2. CONVERGENCE

Preparations :

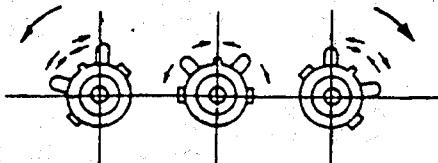
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

(1) Horizontal and vertical static convergence

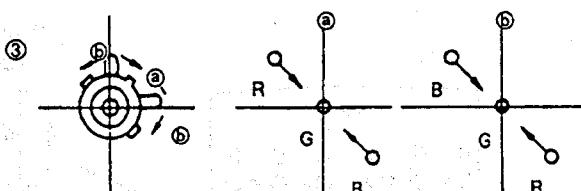
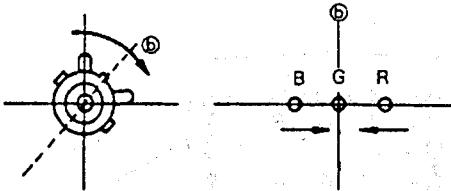
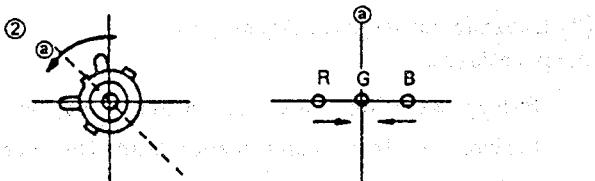
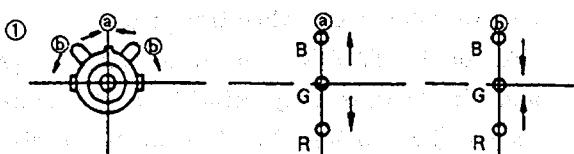


1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V. STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below.
(In this case, the H.STAT variable resistor and the V. STAT magnet influence each other)

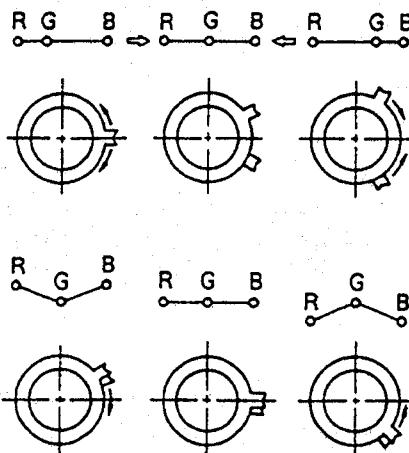
- Tilt the V. STAT magnet and adjust the static convergence by opening or closing the V. STAT magnet.



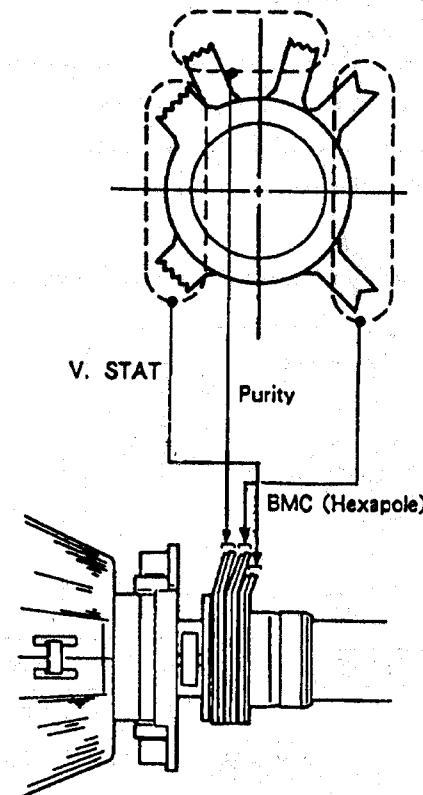
4. If the V. STAT magnet is moved in the direction of the ② and ③ arrows, the red, green, and blue points move as shown below.



- Operation of BMC (Hexapole) Magnet



- The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking. Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).



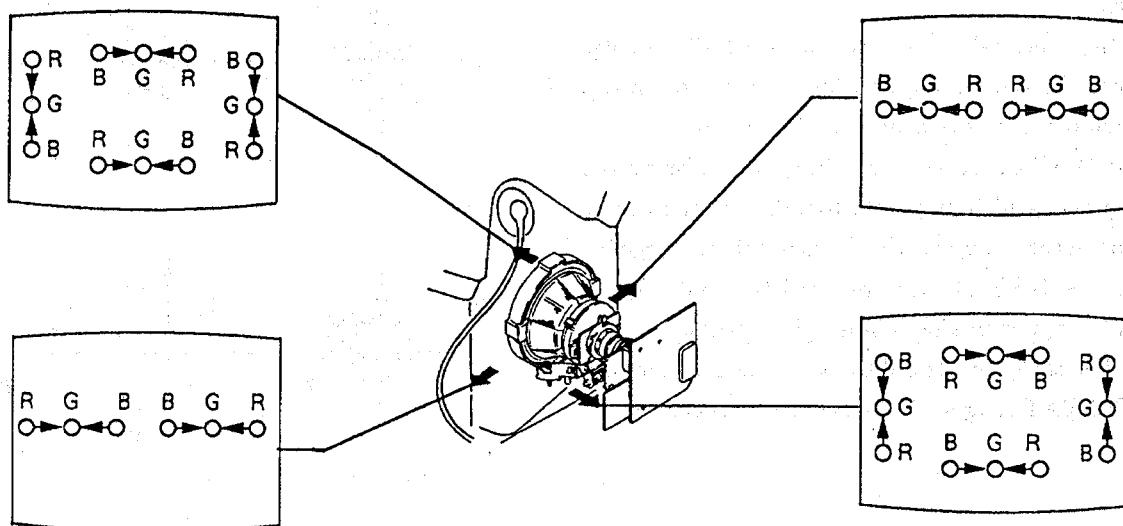
(2) Dynamic convergence adjustment

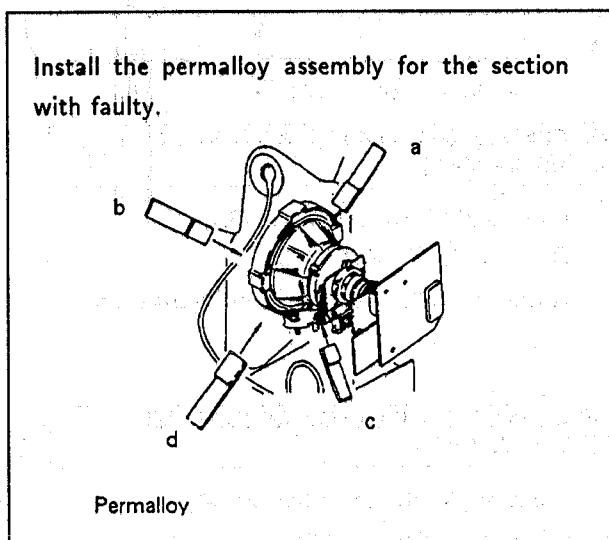
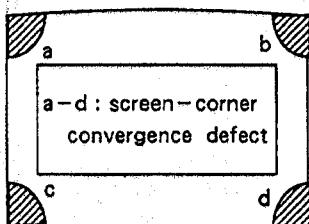
Preparations :

Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

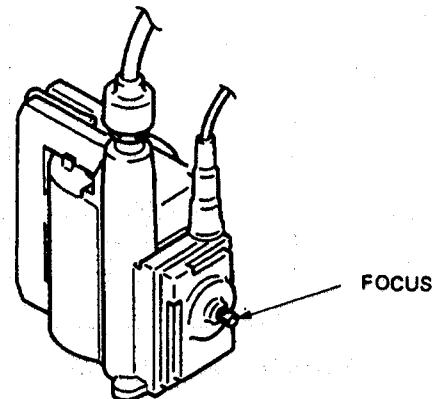
1. Slightly loosen the deflection yoke screws.
2. Remove the deflection yoke spacer.

3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Install the deflection yoke spacer.



(3) Screen corner convergence**3-3. FOCUS**

Adjust the focus to optimize the screen.

**3-4. WHITE BALANCE****[Screen G2 setting]**

1. Input the dot signal from the pattern generator.
2. Set the picture brightness control to its lowest level.
3. Apply 170V DC to the R, G, and B cathodes with an external power supply.
4. While watching the picture, adjust G2 control RV701 (Screen) to the point just before the return lines disappear.

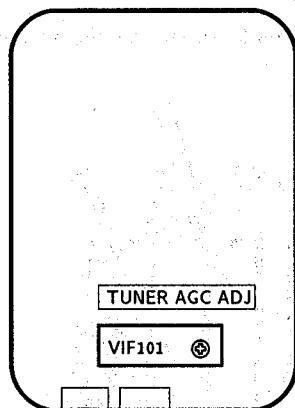
[White balance adjustment]

1. Input an all-white signal from the pattern generator.
2. Set the picture brightness and color controls to their normal levels.
3. Use the RV704 (B Drive) and RV703 (G Drive) to adjust white balance.

In the adjustments below, have the picture color and brightness settings at their normal levels unless there is a specific instruction to the contrary.

SECTION 4 CIRCUIT ADJUSTMENTS

4-1. A BOARD ADJUSTMENTS

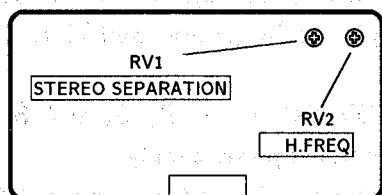


A BOARD (COMPONENT SIDE)

TUNER AGC ADJUSTMENT (AGC VR)

1. Align with an appropriate signal between stations.
2. Adjust AGC VR so that snow noise and cross modulation just disappear from the picture.

IFG5.5S SIF



IFG5.5S SIF -component side-

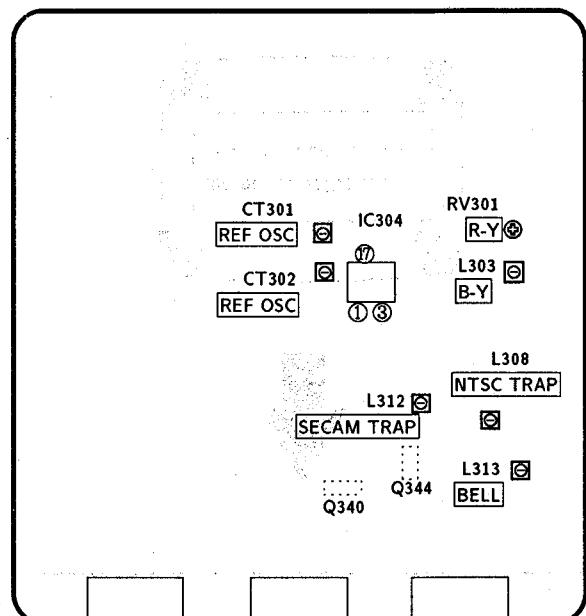
STEREO SEPALATION ADJUSTMENT (RV1)

1. Input stereo signals. (L-CH 400Hz, R-CH 1KHz)
2. Check the stereo indicator.
3. Connect on oscilloscope to pin⑧ (CH1) of CN1 through band pass filter of 1KHz
4. Adjust RV1 so that 1KHz voltage goes down to the minimum.

H FREQ (RV2)

1. Input a PAL COLOR BAR signal, then connect a jumper between pin⑫ IC4 and GND.
2. Connect a frequency counter to pin④ IFG5.5S (HP) of CN1 through a probe of 10 : 1.
3. Adjust RV2 (H.FREQ) $15.625 \pm 50\text{Hz}$.
4. After adjustment, remove the jamper.

4-2. B1 BOARD ADJUSTMENTS



B1 BOARD (COMPONENT SIDE)

REFERENCE OSCILLATOR ADJUSTMENT (CT302 8.8MHz)

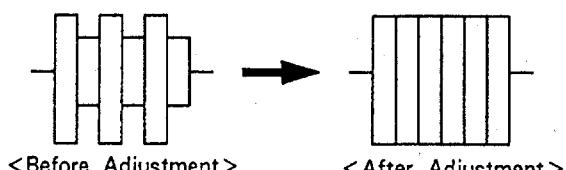
1. Input a PAL color bar signal.
2. Ground pin ⑦ of the IC304.
3. Adjust CT302 to obtain synchronization.

REFERENCE OSCILLATOR ADJUSTMENT (CT301 7.16MHz)

1. Input an NTSC color bar signal.
2. Ground pin ⑦ of IC304.
3. Adjust the CT301 to obtain synchronization.
4. Remove the jumper grounding pin ⑭ of IC304.

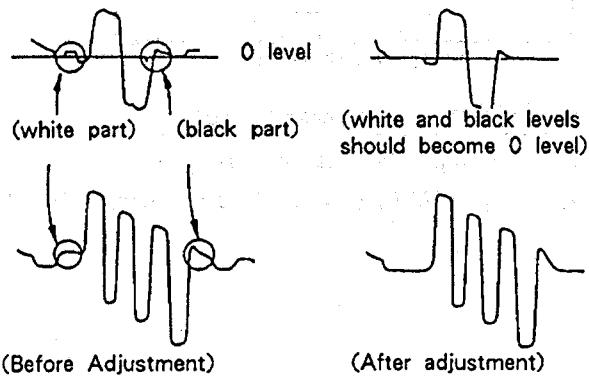
BELL FILTER ADJUSTMENT (L313)

1. Input a SECAM color bar signal.
2. Connect the oscilloscope to the emitter of Q344.
3. Adjust L313 so that the waveform is flat.



**DISCRIMINATION ADJUSTMENTS
(RV301 and L303)**

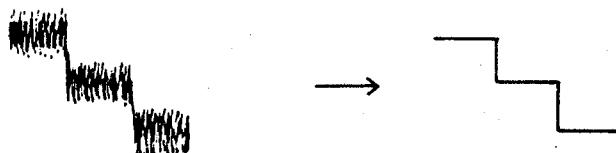
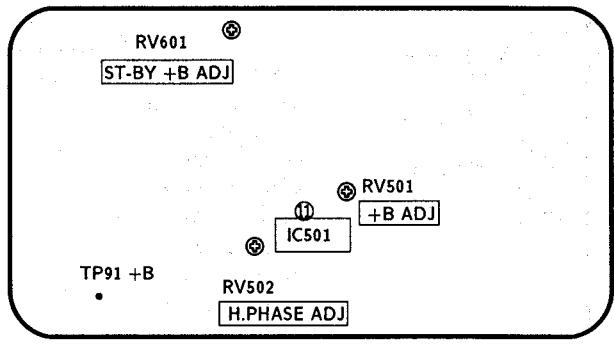
1. Input a SECAM color bar signal.
2. Connect the oscilloscope to pin ① of IC304.
3. Adjust RV301 until the white and black sections of the waveform at pin ① are at the 0 level. Connect the oscilloscope to pin ③ of IC304.
4. Adjust L303 until the white and black sections of the waveform at pin ③ are at the 0 level.

**SECAM TRAP (L312)**

1. Input a SECAM color bar signal.
2. Connect oscilloscope to Q340 emitter and adjust L312 to minimize color carrier on the Y-signal.

**NTSC TRAP (L308)**

1. Input a NTSC (3.58) color bar signal.
2. Connect oscilloscope to Q340 emitter and adjust L308 to minimize color carrier on the Y-signal.

**4-3. D BOARD ADJUSTMENTS**

D BOARD (COMPONENT SIDE)

+B ADJUSTMENT (RV501)

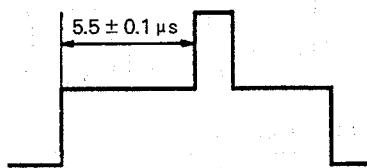
1. Connect the digital multimeter to TP91.
2. Adjust RV501 to obtain $135 \pm 0.2V$.

ST-BY +B ADJUSTMENT (RV601)

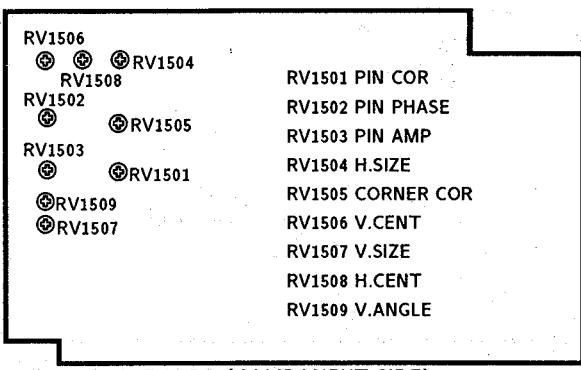
1. Put the system into $\textcircled{1}$ standby mode (remote commander).
2. Connect the digital multimeter to TP91.
3. Adjust RV601 to obtain $135 \pm 3V$.
4. Take the system out of $\textcircled{1}$ standby mode (remote commander).

H.PHASE ADJUSTMENT (RV502)

1. Input a PAL color bar signal.
2. Set the picture and brightness controls to their normal levels.
3. Set RV1508 (H.CENT) to its mechanical center.
4. Connect the oscilloscope to pin ⑪ (SCP) of IC 501.
5. Rotate RV502 to adjust to $5.5 \pm 0.1 \mu s$.

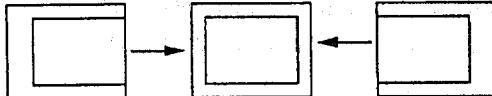


4-4. J1 BOARD ADJUSTMENTS

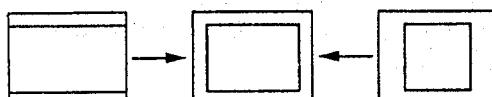


J1 BOARD (COMPONENT SIDE)

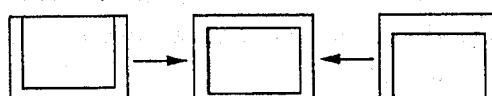
RV1508
H. CENT (HORIZONTAL CENTER)



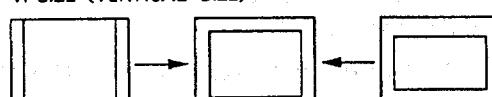
RV1504
H. SIZE (HORIZONTAL SIZE)



RV1506
V. CENT (VERTICAL CENTER)



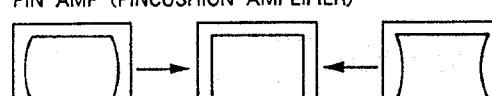
RV1507
V. SIZE (VERTICAL SIZE)



RV1509
V. ANGLE (VERTICAL ANGLE)



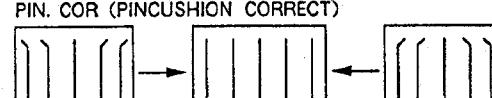
RV1503
PIN AMP (PINCUSHION AMPLIFIER)



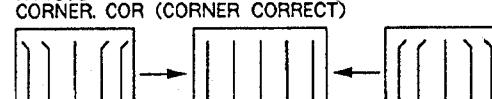
RV1502
PIN PHASE (PINCUSHION PHASE)



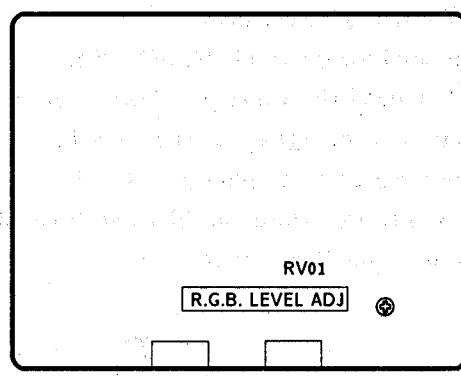
RV1501
PIN. COR (PINCUSHION CORRECT)



RV1505
CORNER. COR (CORNER CORRECT)



4-5. V BOARD ADJUSTMENT



V BOARD (COMPONENT SIDE)

RGB LEVEL ADJUSTMENT (RV01)

1. Maximize the picture setting.
2. Adjust RV01 so that the RGB output is 0.75V.

4-6. SECONDARY ADJUSTMENTS

SUB BRIGHTNESS ADJUSTMENT

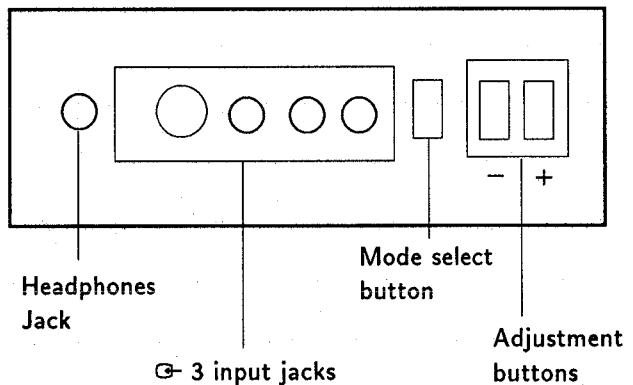
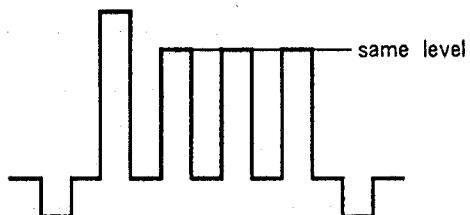
1. Set the system to receive a test pattern.
2. Press $\rightarrow \cdot \leftarrow$ on the remote commander to put the system into normal mode.
3. Switch off the power.
4. While depressing the adjusting buttons + and - simultaneously, turn on the power. (SUB mode is obtained)
5. Minimize the \odot contrast setting.
6. Adjust the \odot brightness control so that the gray scale 0 IRE section is cut off completely and the 20 IRE section is barely glowing.
7. Depress the \diamond (store) button of the remote commander.
(SUB mode is released)

If there is no test color pattern

1. Set the system to receive a color pattern.
2. Press $\rightarrow \cdot \leftarrow$ on the remote commander to put the system into normal mode.
- Set the \odot color to its normal state.
- 3-5. Steps are the same as above.
6. Since 20 IRE is nearly blue, adjust the \odot brightness control so that the blue barely glows.
7. Same as step 7 above.
8. Press $\rightarrow \cdot \leftarrow$ on the remote commander to put the system into normal mode.

SUB COLOR ADJUSTMENT

1. Set the system to receive color bars.
2. Press $\rightarrow \cdot \leftarrow$ on the remote commander to put the system into normal mode.
3. Cut off the power.
4. While depressing the adjustment buttons + and - simultaneously, turn on the power. (SUB mode is obtained).
5. Adjust the color control so that the B out waveform (pin ⑤ of C board connector CNC72) is as shown in the figure below.
6. Depress the \diamond (store) button of the remote commander. (SUB mode is released)

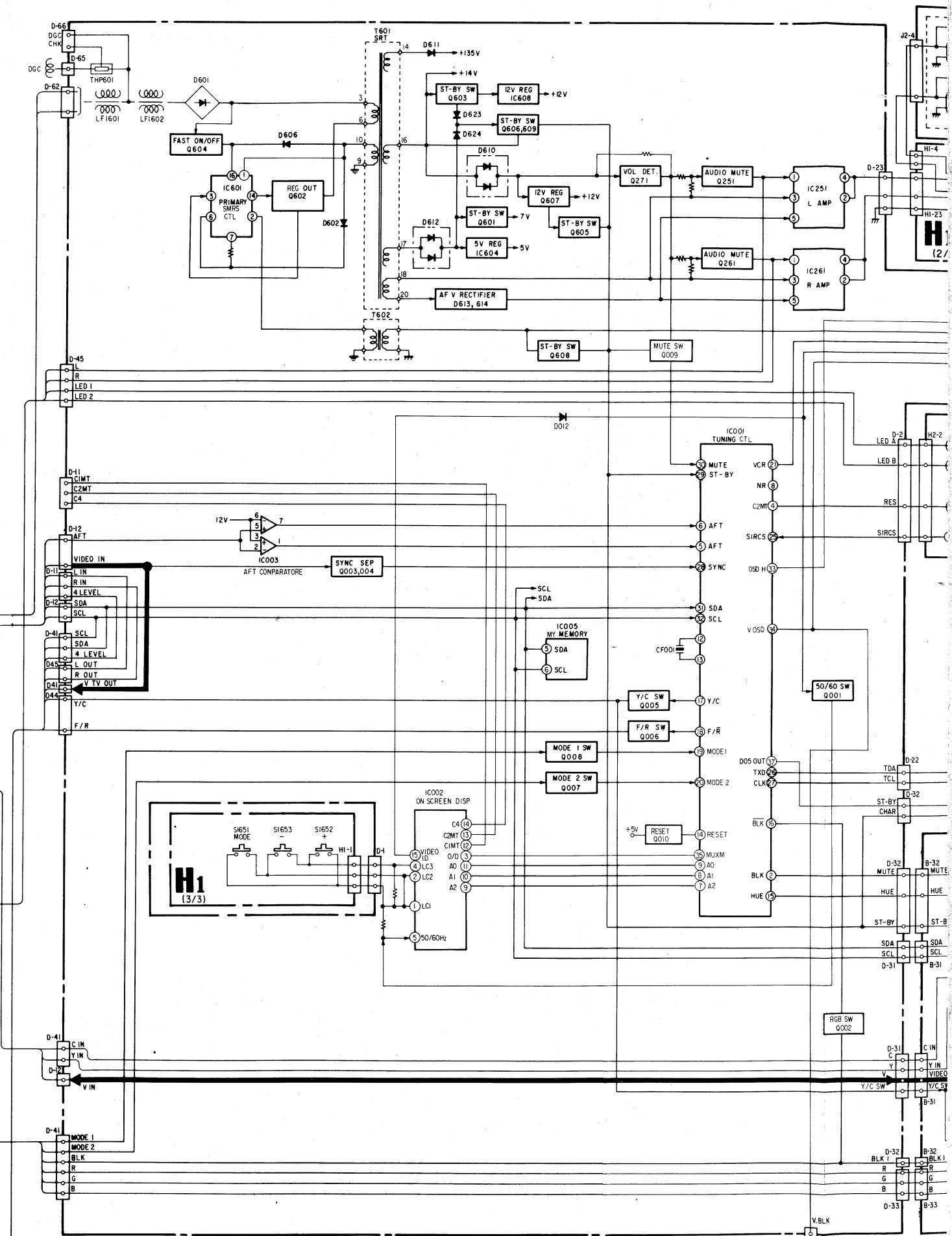
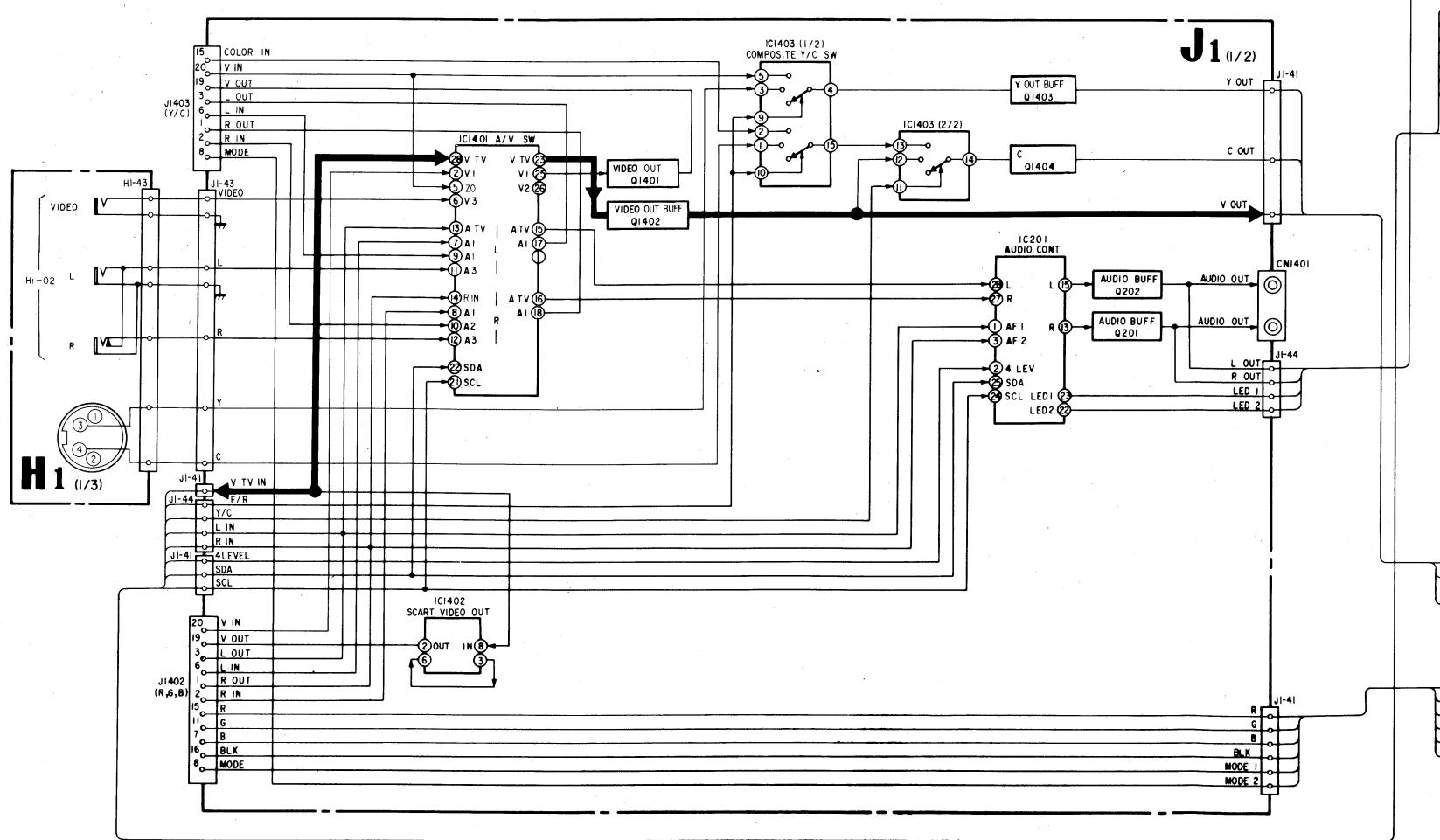
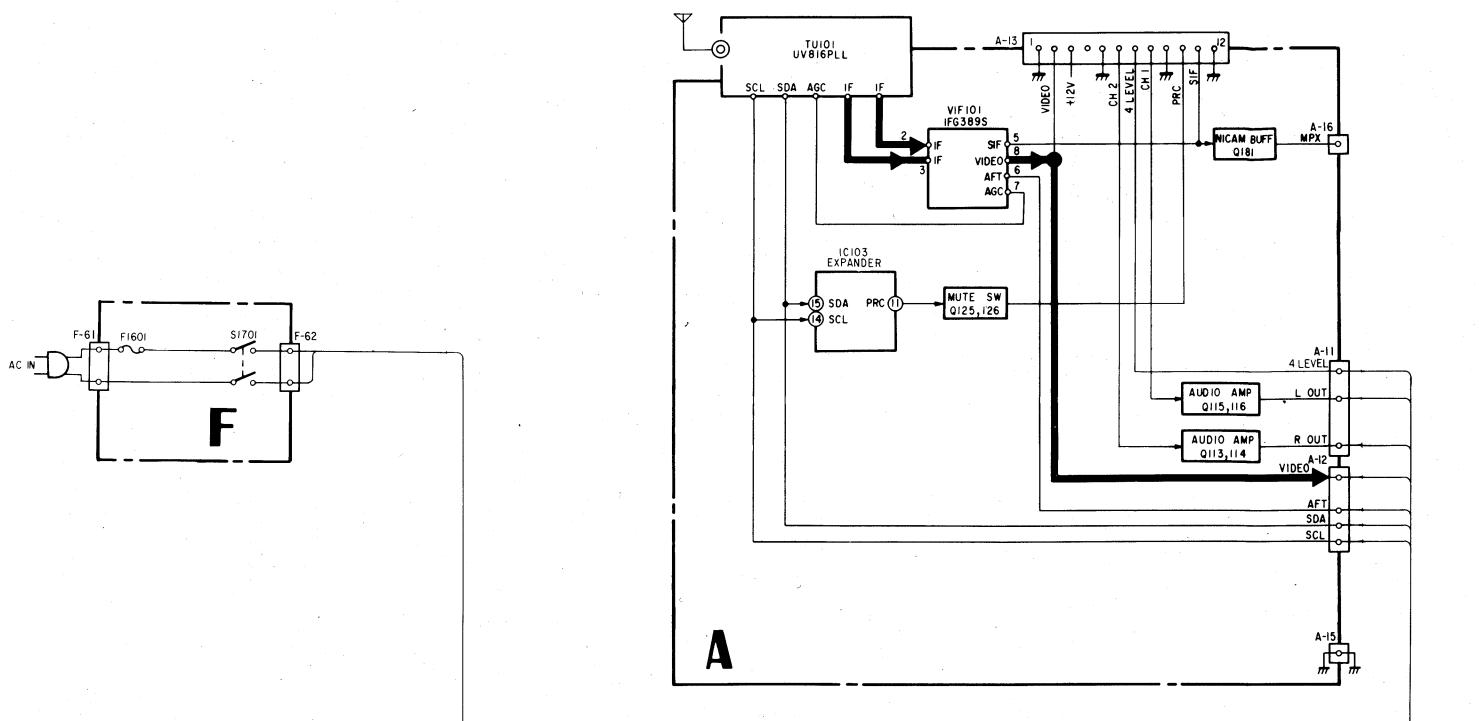


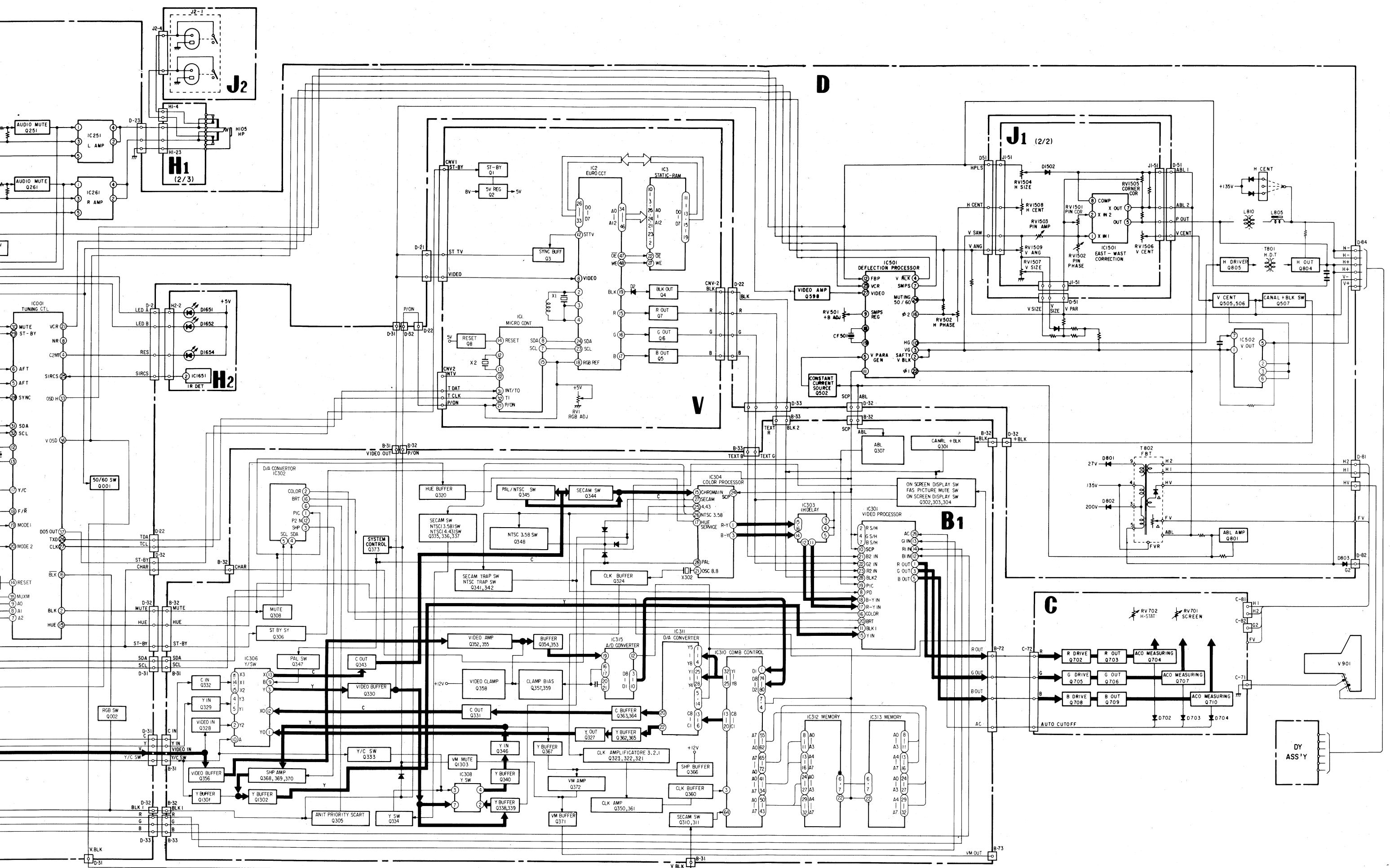
MEMO

SECTION 5

DIAGRAMS

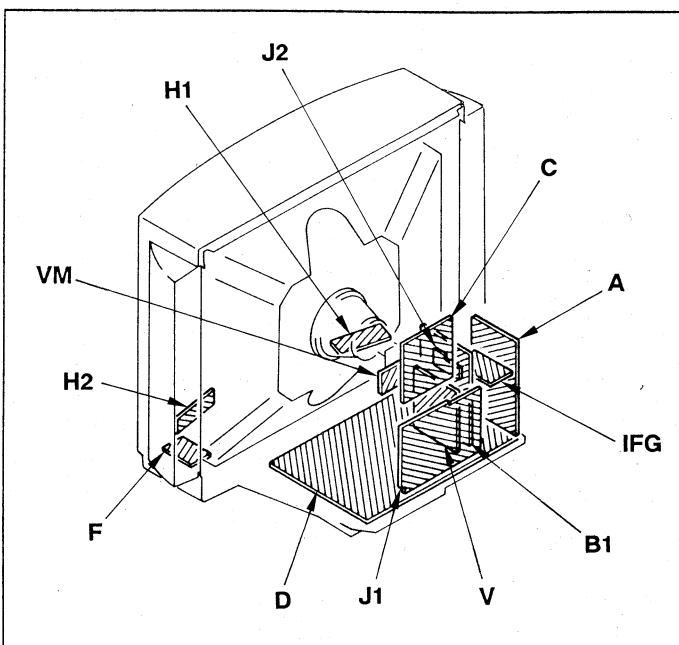
5-1. BLOCK DIAGRAM





H1 [CONTROL SW,
AV INPUT,
HEADPHONE]**H2** [SIRCS RECEIVER,
INDICATOR]**F** [AC IN POWER SW]**J2** [SPEAKER
TERMINAL]

5-2. CIRCUIT BOARDS LOCATION



Reference information

RESISTOR	: RN METAL FILM
	: RC SOLID
	: FPRD NONFLAMMABLE CARBON
	: FUSE NONFLAMMABLE FUSIBLE
	: RS NONFLAMMABLE METAL OXIDE
	: RB NONFLAMMABLE CEMENT
	: RW NONFLAMMABLE WIREWOUND
	: ✕ ADJUSTMENT RESISTOR
COIL	: LF-8L MICRO INDUCTOR
CAPACITOR	: TA TANTALUM
	: PS STYROL
	: PP POLYPROPYLENE
	: PT MYLAR
	: MPS METALIZED POLYESTER
	: MPP METALIZED POLYPROPYLENE
	: ALB BIPOLAR
	: ALT HIGH TEMPERATURE
	: ALR HIGH RIPPLE

- Readings are taken with a color-bar signal input.
- Readings are taken with a $10M\Omega$ digital multimeter.
- Voltage are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform references.
- — : B+ bus.
- → : signal path.(RF)

5-3. SCHEMATIC DIAGRAMS AND PRINTED
WIRING BOARDS – Conductor Side –

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

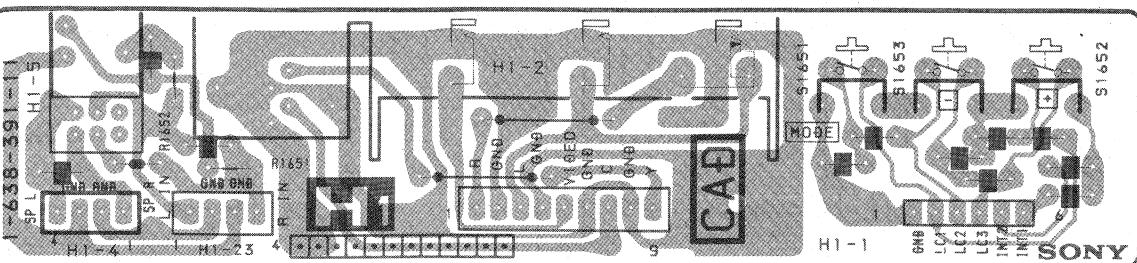
Note:

- All capacitors are in μF unless otherwise noted. pF: $\mu\mu F$ 50 WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms. $k\Omega = 1000\Omega$, $M\Omega = 1000K\Omega$
- Indication of resistance, which does not have one for rating electrical power, is as follows.

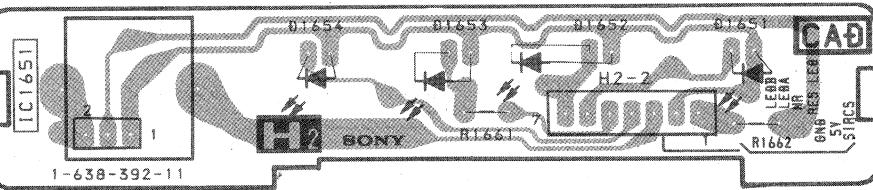
Pitch: 5 mm
Rating electrical power $1/4$ W

- : nonflammable resistor.
- : internal component.
- : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-ground.
- : earth-chassis.
- : no mounted.

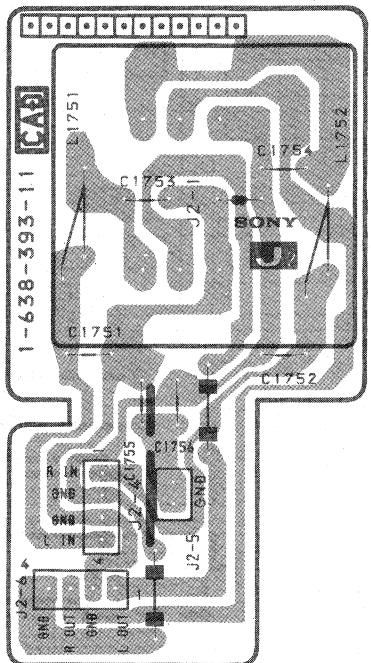
– H1 Board –



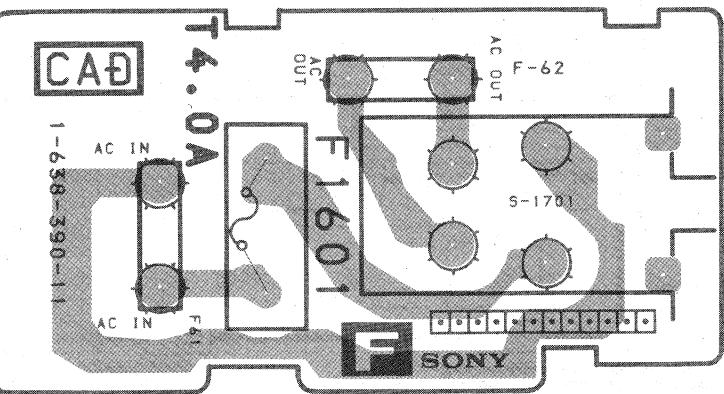
– H2 Board –



– J2 Board –

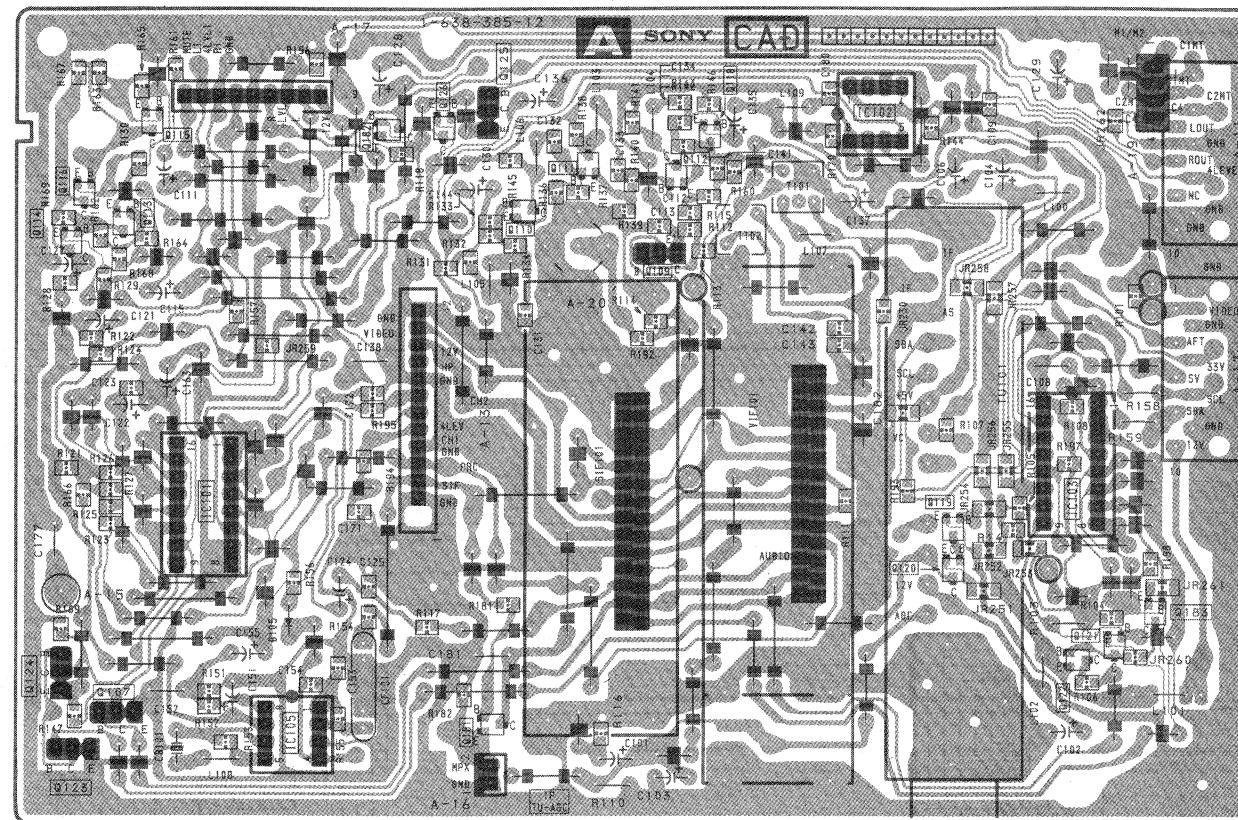


– F Board –

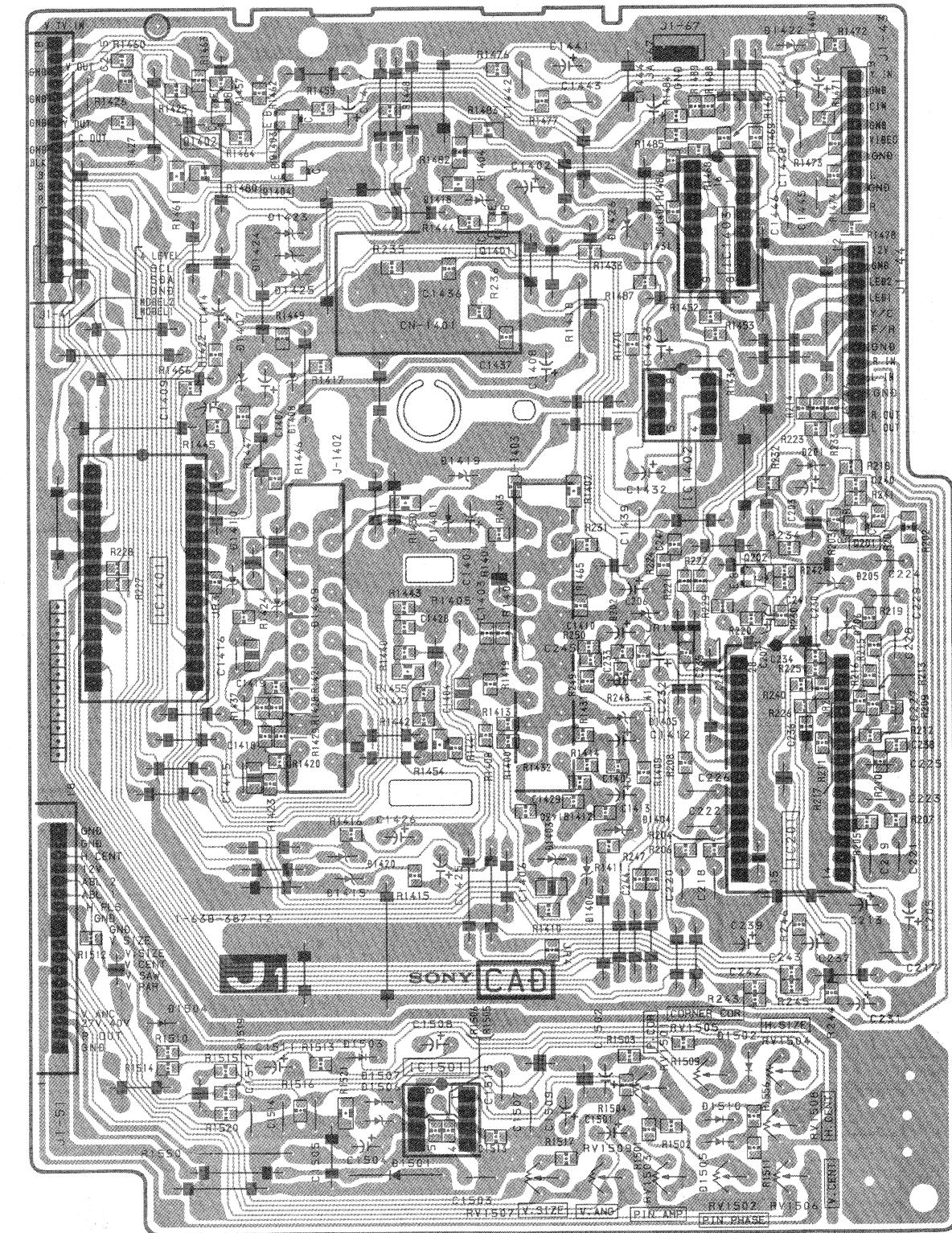


A [TUNER, SIF,VIF]**VM** [VM AMP]**J1** [AUDIO CONTROL, AV INPUT
Y/C INPUT, SCAR VIDEO OUT,
EAST-WEST CORRECTION]

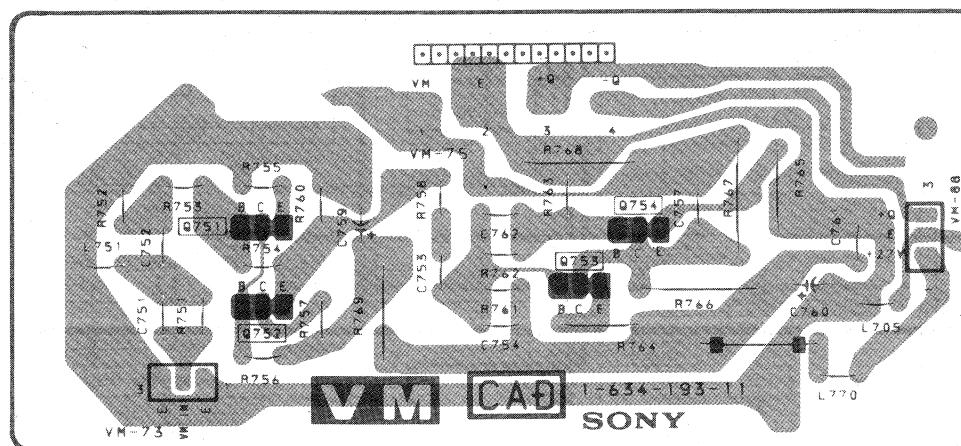
- A Board -

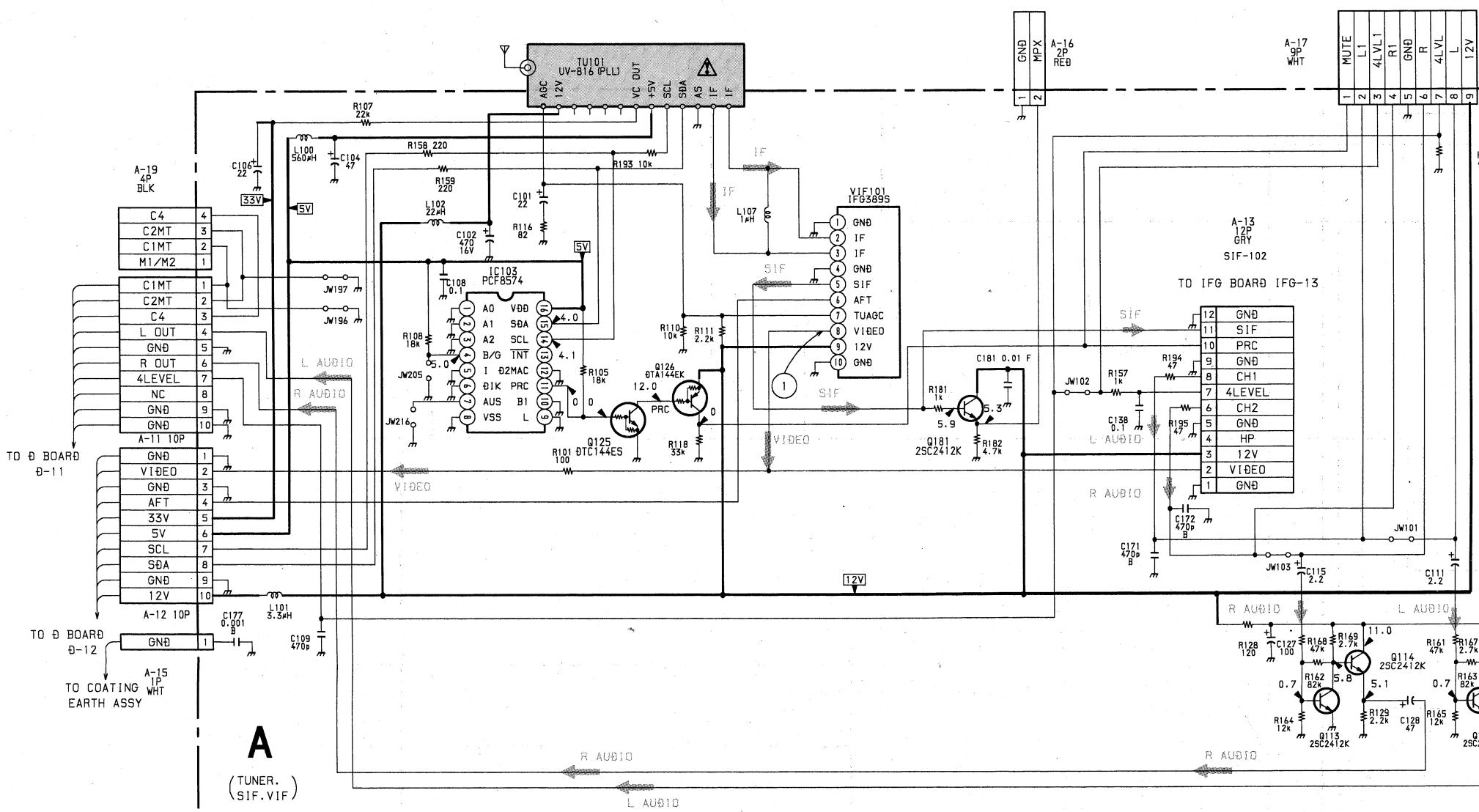


- J1 Board -



- VM Board -

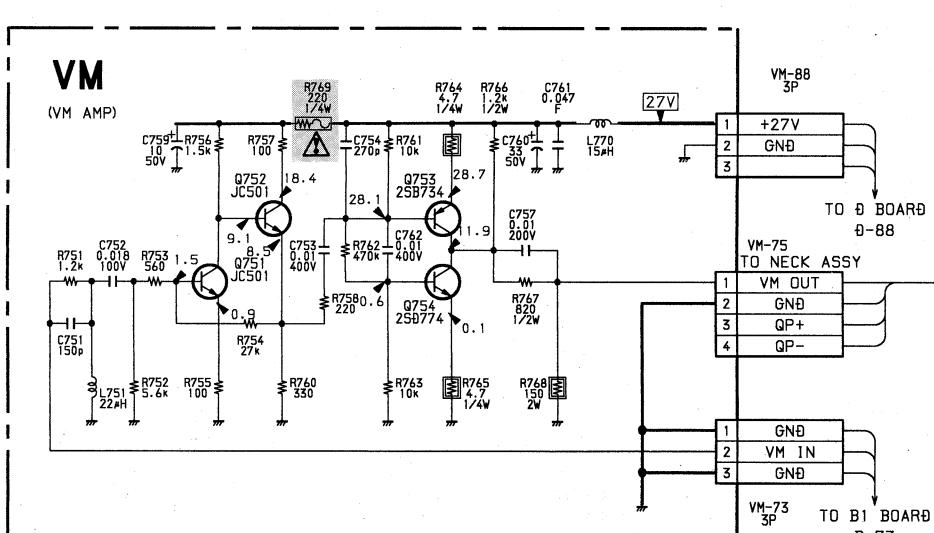
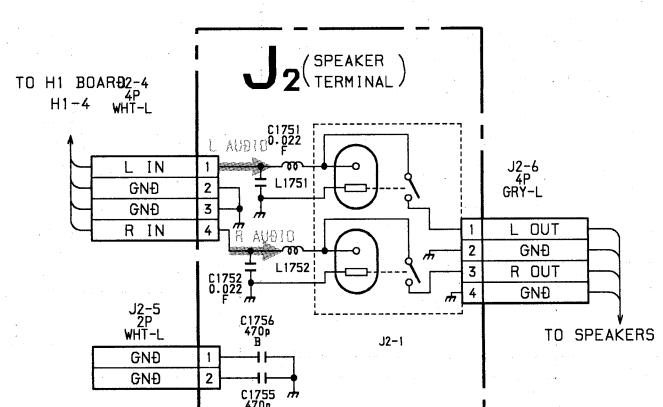
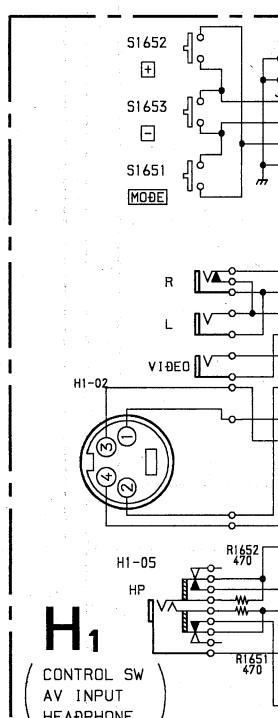
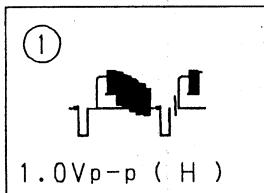




A Board

IC103	PCF8574P	EXPANDER
Q113	2SC2412K	AUDIO AMP
Q114	2SC2412K	AUDIO AMP
Q115	2SC2412K	AUDIO AMP
Q116	2SC2412K	AUDIO AMP
Q125	DTC114EK	MUTE SW
Q126	DTA114EK	MUTE SW
Q181	2SC2412K	NICAM BUFFER

Waveforms A Board

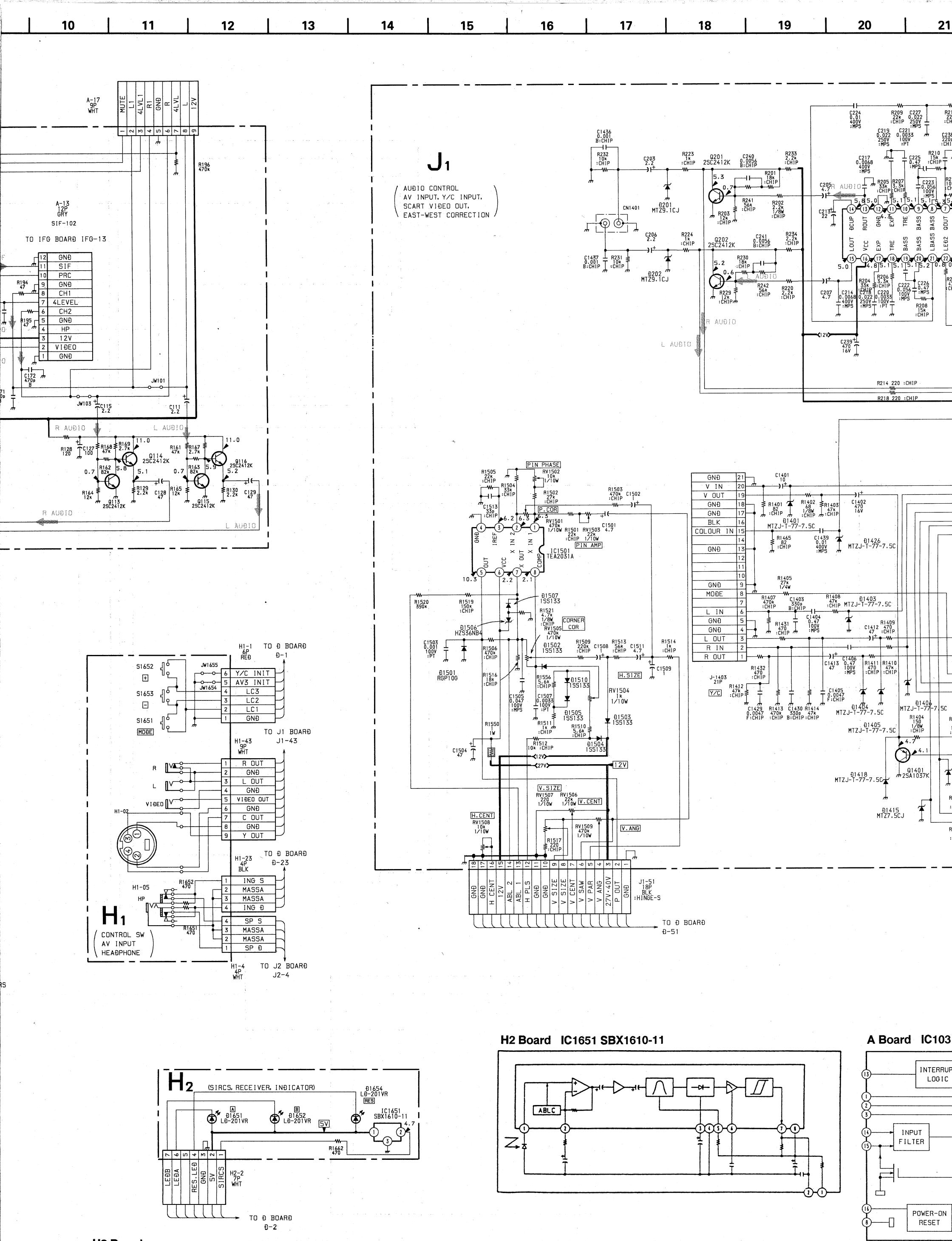


VM Board

Q751	JC501	REF-AMP
Q752	JC501	REF-AMP
Q753	2SB734	PUSH-PULL OUT
Q754	2SB774	PUSH-PULL OUT

H2 Board

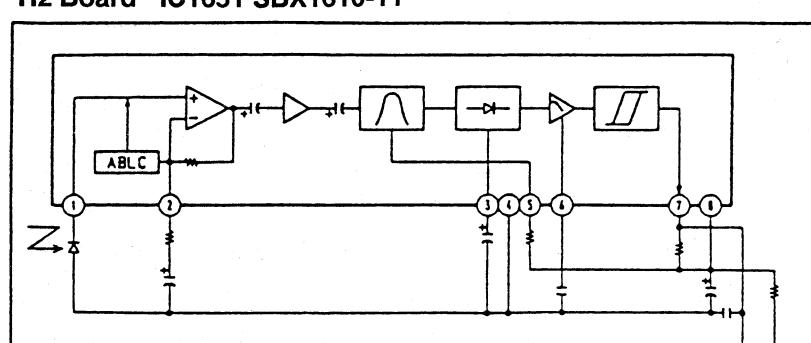
IC1651	SBX1610-11
Ø1651	LØ-201VR
Ø1652	LØ-201VR



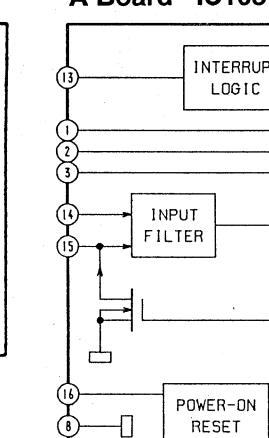
H2 Board

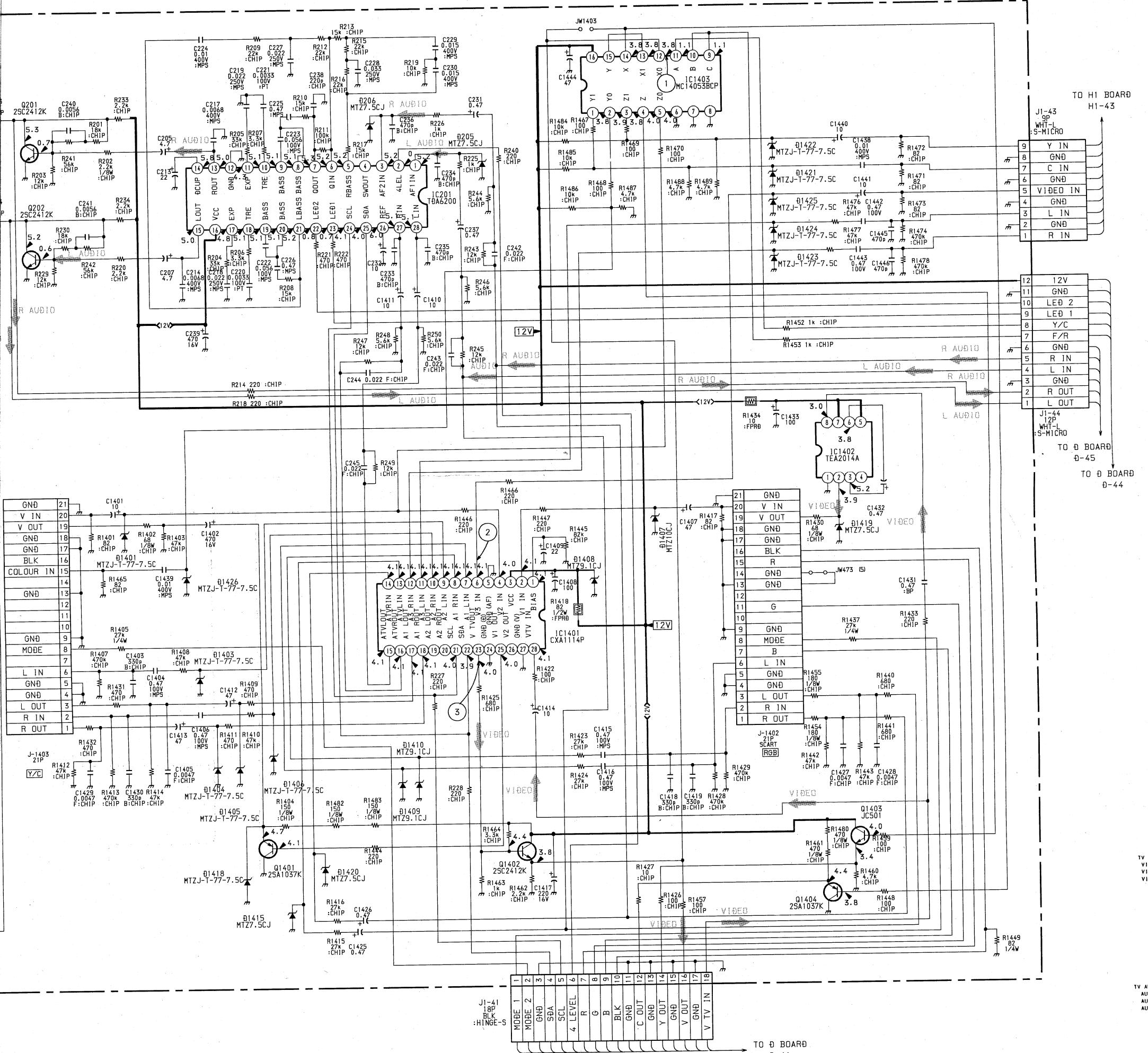
IC1651	SBX1610-11	INFRARED RECEIVER
Ø1651	LD-201VR	AUDIO CHANNEL A INDICATOR
Ø1652	LD-201VR	AUDIO CHANNEL B INDICATOR
Ø1654	LD-201VR	RESET

H2 Board IC1651 SBX1610-11

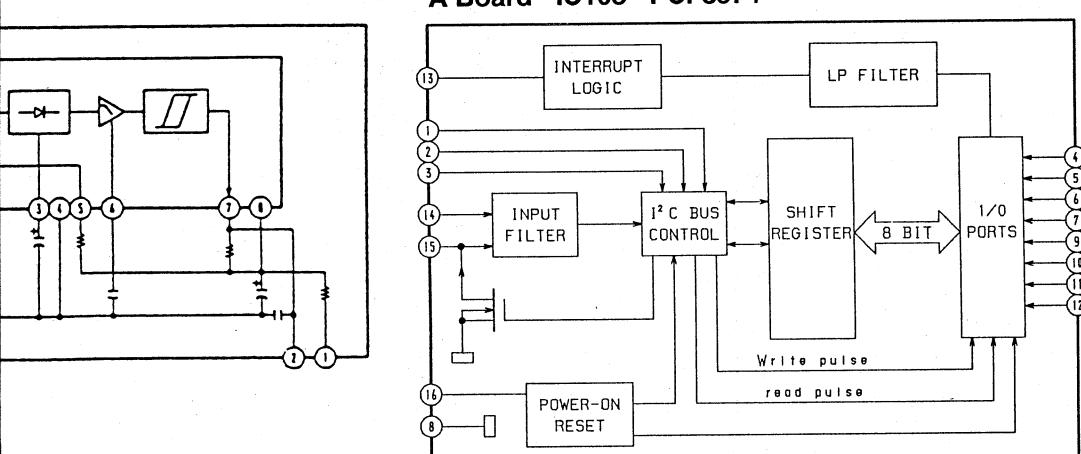


A Board IC103

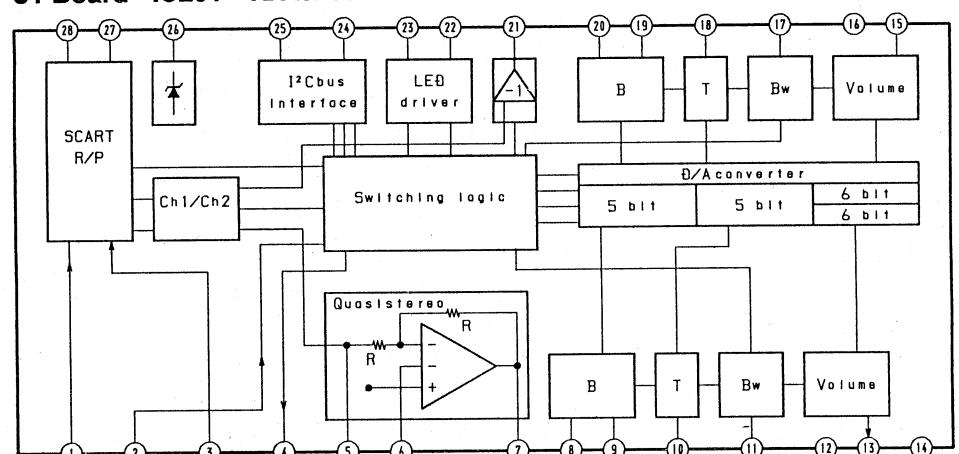




A Board IC103 PCF8574



J1 Board IC201 TDA6200



A

B

C

D

E

F

G

H

I

J

K

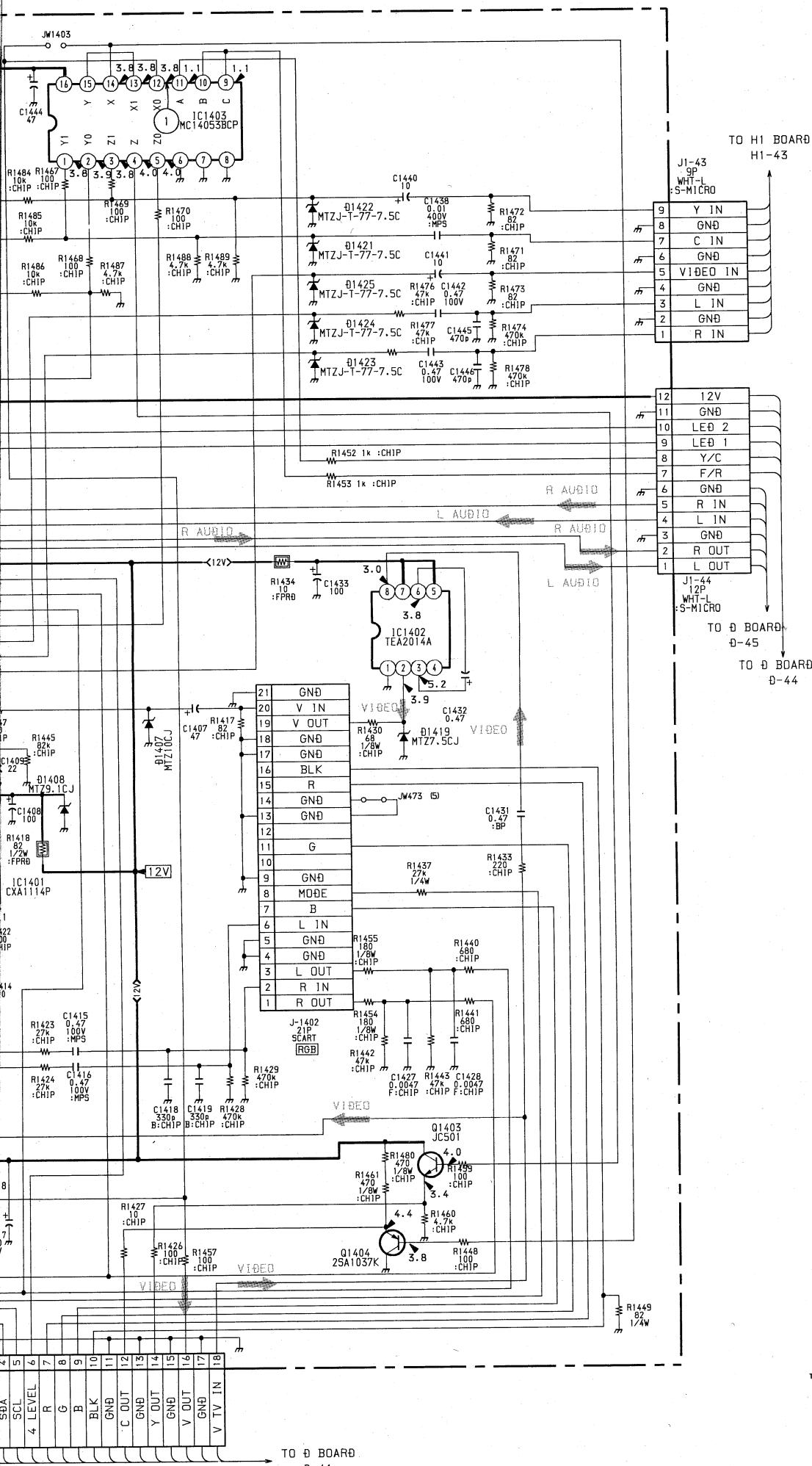
L

M

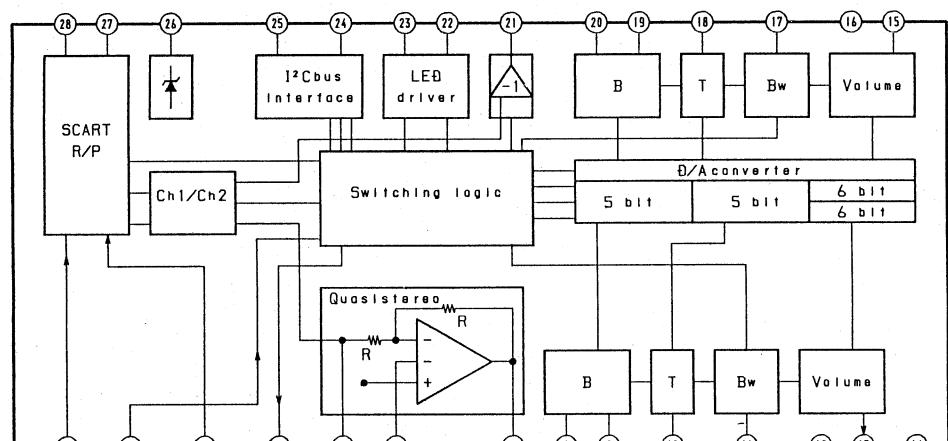
N

O

P



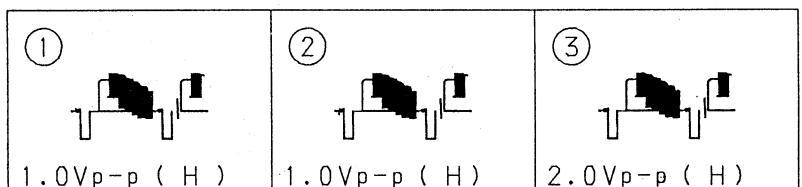
J1 Board IC201 TDA6200



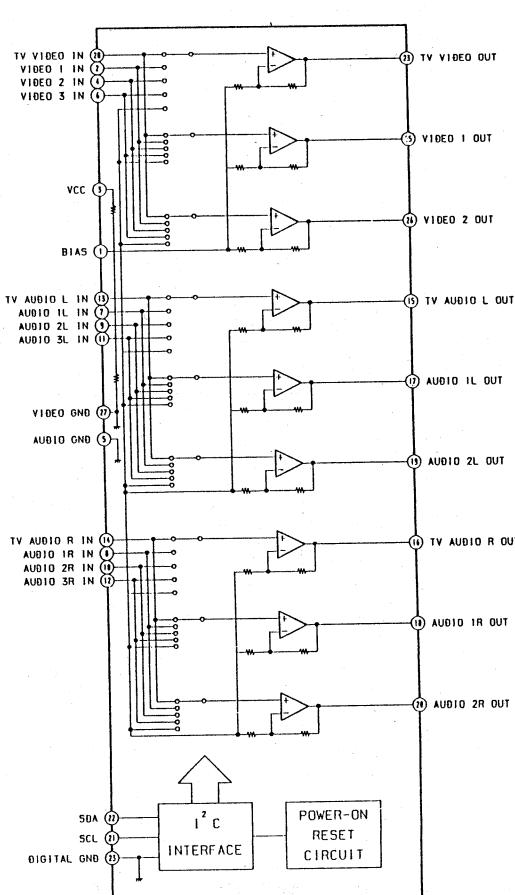
J1 Board

IC201	TDA6200	AUDIO CONTROL
IC1401	CXA1114P	AV SW
IC1402	TEA2014A	SCART VIDEO OUT
IC1403	MC14053BCP	COMPOSITE Y/C SW
IC1501	TEA2031A	EAST-WEST CORRECTION
Q201	2SC2412K	AUDIO R BUFF
Q202	2SC2412K	AUDIO L BUFF
Q1401	2SA1162G	VIDEO OUT
Q1402	2SC2412K	VIDEO OUT BUFF
Q1403	JCS01	Y OUT BUFF
Q1404	2SA1037K	C OUT BUFF
D201	MTZ-9.1CJ	PROTECT
D202	MTZ-9.1CJ	PROTECT
D205	MTZ-7.5CJ	PROTECT
D206	MTZ-7.5CJ	PROTECT
D1401	MTZ-7.5CJ	PROTECT
D1403	MTZ-7.5CJ	PROTECT
D1404	MTZ-7.5CJ	PROTECT
D1405	MTZ-7.5CJ	PROTECT
D1406	MTZ-7.5CJ	PROTECT
D1407	MTZ-10CJ	PROTECT
D1408	MTZ-9.1CJ	REG
D1409	MTZ-9.1CJ	PROTECT
D1410	MTZ-9.1CJ	PROTECT
D1415	MTZ-7.5CJ	PROTECT
D1418	MTZ-7.5CJ	PROTECT
D1419	MTZ-7.5CJ	PROTECT
D1420	MTZ-7.5CJ	PROTECT
D1421	MTZ-7.5CJ	PROTECT
D1422	MTZ-7.5CJ	PROTECT
D1423	MTZ-7.5CJ	PROTECT
D1424	MTZ-7.5CJ	PROTECT
D1425	MTZ-7.5CJ	PROTECT
D1426	MTZ-7.5CJ	PROTECT
D1501	RGP10G	PROTECT
D1502	ISS133	DE COUPLING H SIZE
D1503	ISS133	CLIPPING V PARABORA
D1504	ISS133	CLIPPING H PULSE
D1505	ISS133	REG
D1506	HZS36NB4	PROTECT
D1507	ISS133	PROTECT
D1510	ISS133	REG

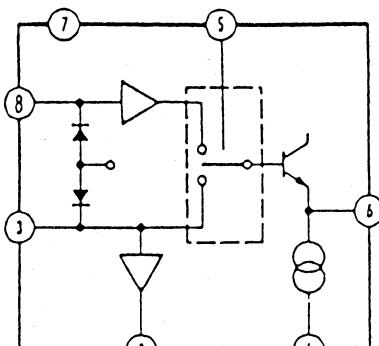
Waveforms J1 Board



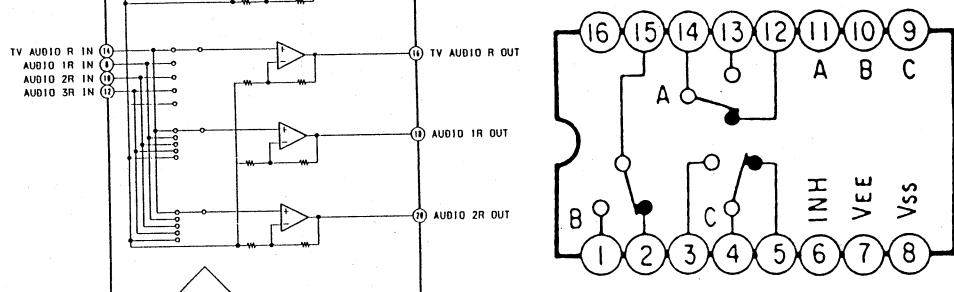
J1 Board IC1401 CXA1114P



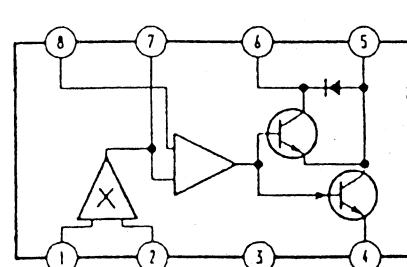
J1 Board IC402 TEA2014A



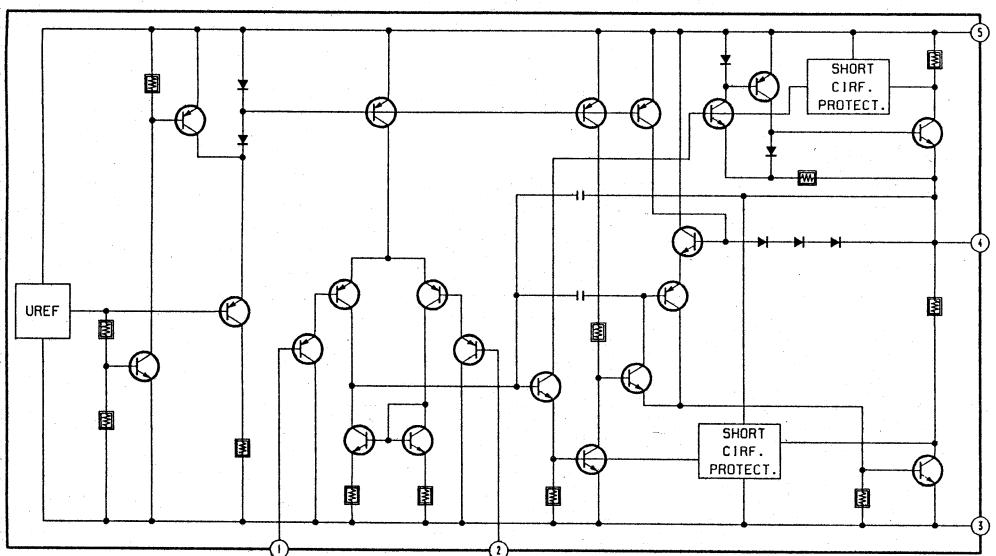
J1 Board IC1403 MC14053BCP



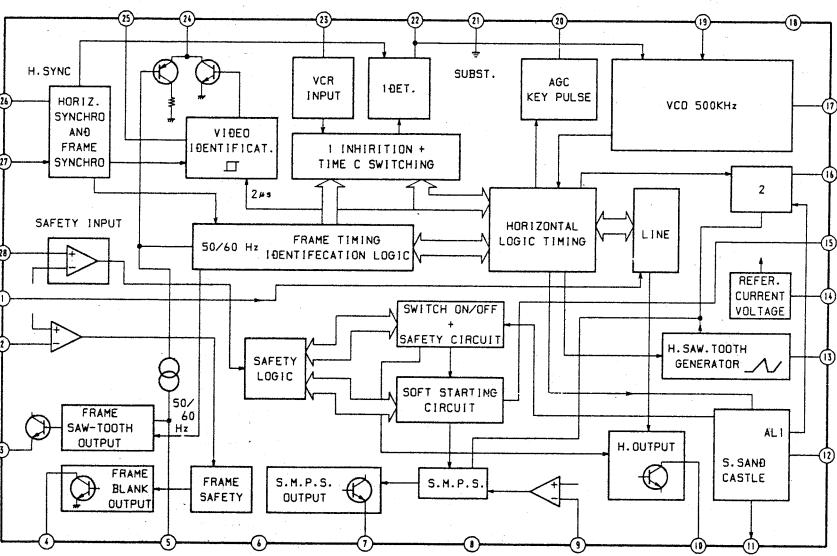
J1 Board IC1501 TEA2031A



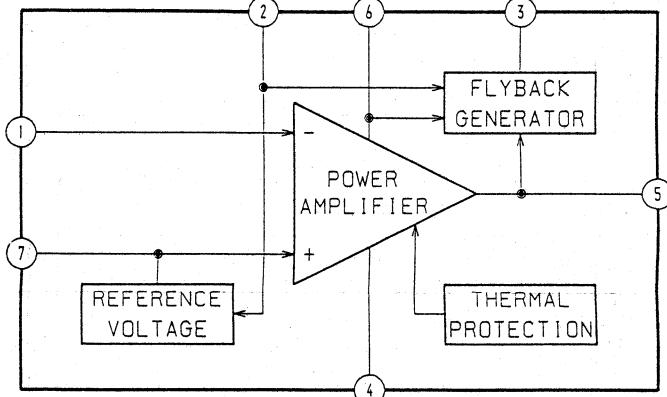
D Board IC251/261TDA2050



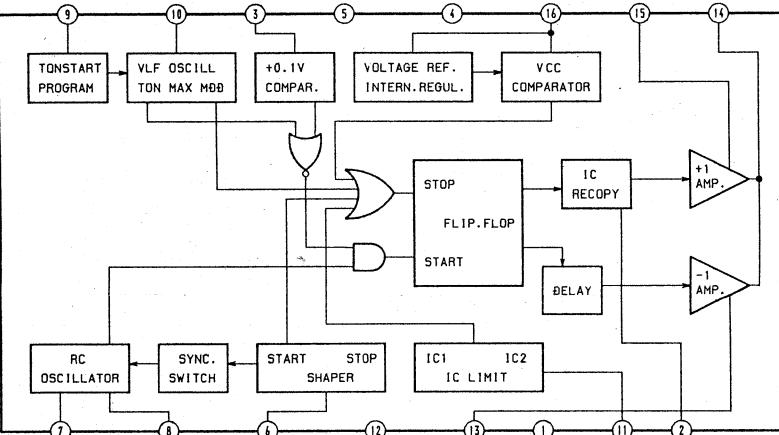
D Board IC501 TEA2028B



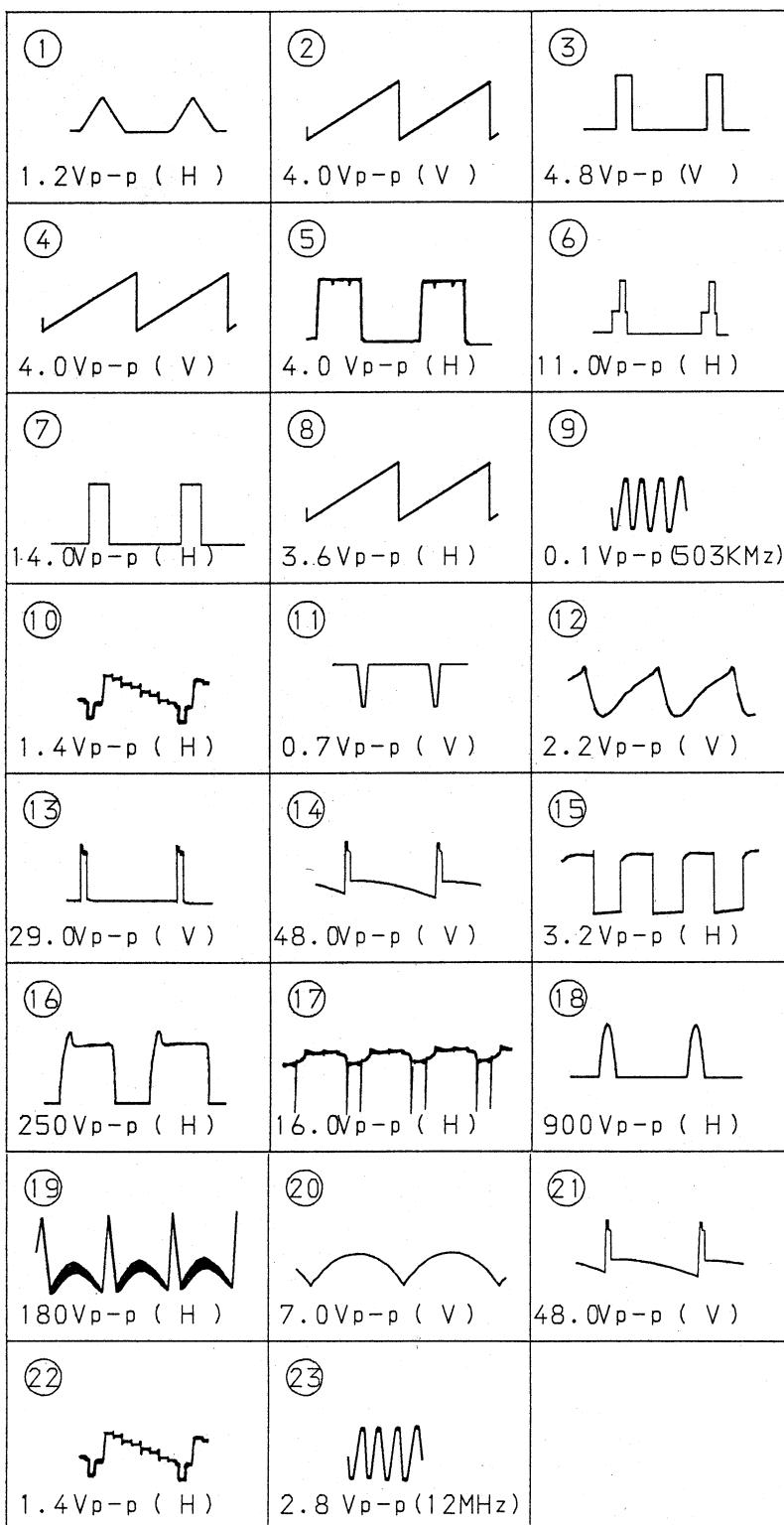
D Board IC502 TDA8170



D Board IC601 TEA2260

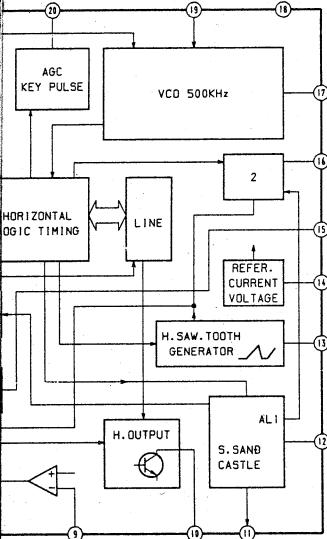


D Board



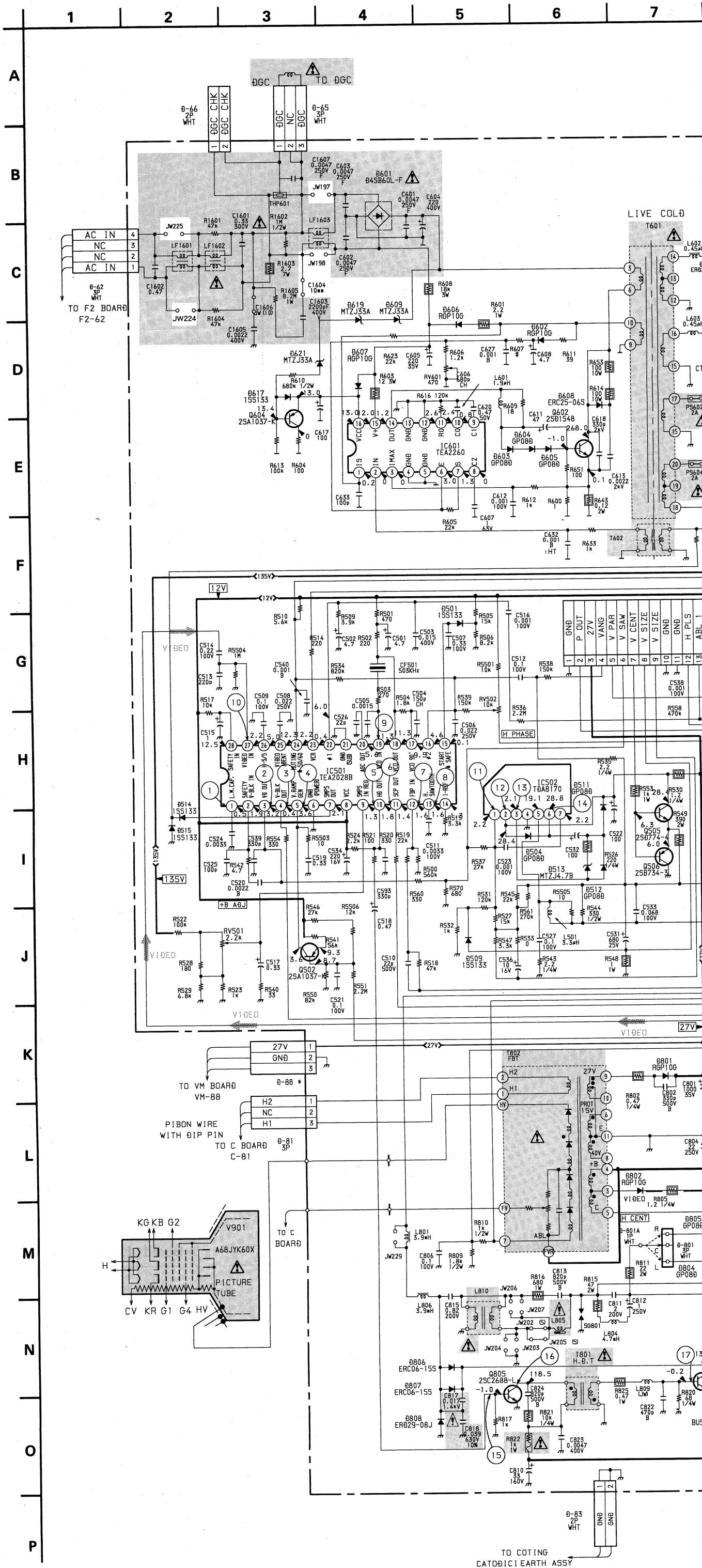
D Board

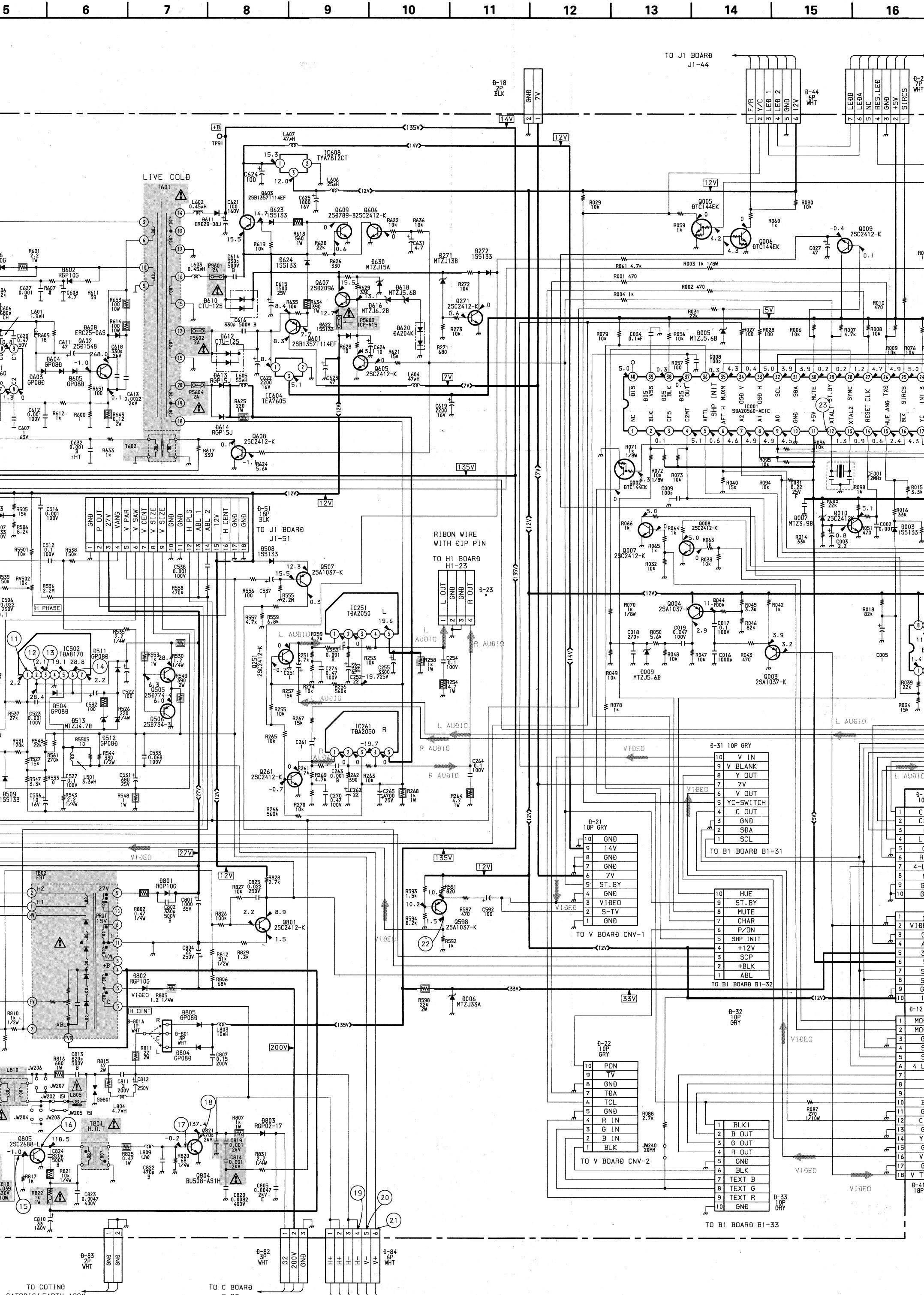
IC001	SDA20560-AEIC	TUNING CTL
IC002	MC14051BCP	ON SCREEN DISPLAY
IC003	BA4558	AFT COMPARATOR
IC005	SDA2546	MY MEMORY
IC251	TDA2050	AUDIO OUT (L)
IC261	TDA2050	AUDIO OUT (R)
IC501	TEA2028B	DEFLECTION PROCESSOR
IC502	TDA8170	V OUT
IC601	TEA2260	PRIMARY SMRS CTL
IC604	TEA7605	+5V REG
IC608	TYA7812CT	+12V REG.
Q001	BTC144EK	50/60Hz SW
Q002	BTA144EK	BLK SW
Q003	2SA1037-K	SYNC SEPARATOR
Q004	2SA1037-K	SYNC SEPARATOR
Q005	BTC144EK	Y/C SW
Q006	BTC144EK	FRONT/REAR SW
Q007	2SC2412-K	MODE 2 SWITCH
Q008	2SC2412-K	MODE 1 SWITCH
Q009	2SC2412-K	MUTE SW
Q010	2SC2412-K	RESET
Q251	2SC2412-K	AUDIO MUTE
Q261	2SC2412-K	AUDIO MUTE
Q271	2SC2412-K	VOLTAGE DETECT
Q502	2SA1037-K	CONSTANT CURRENT SOURCE
Q505	2SB774	V CENT
Q506	2SB734	V CENT
Q507	2SA1037-K	CANAL +BLK
Q598	2SA1037-K	VIDEO AMP
Q601	2SB1357T114EF	STBY SW
Q602	2SD1548	REG OUT
Q603	2SB1357T114EF	STBY SW
Q604	2SA1037-K	FAST ON/OFF
Q605	2SC2412-K	STBY SW
Q606	2SC2412-K	STBY SW
Q607	2SD02096-EF	+12V REG
Q608	2SC2412K	STBY SW
Q609	2SD789-3	STBY SW
Q801	2SC2412-K	ABL AMP
Q804	BU508ASIH	H OUT
Q805	2SC2688	H DRIVER
Q003	ISS133	HUE CTL
Q005	MTZJ5.6B	PROT
Q006	MTZJ33A	VC VOLTAGE REGULATION
Q007	MTZJ3.9B	PLOT RESET
Q009	MTZJ5.6B	CLIPPING SYNC LEVEL
Q010	MTZJ6.2B	PROT
Q011	MTZJ6.2B	PROT
Q012	ISS133	PROT
Q013	MTZJ6.8C	PROT
Q271	MTZJ13B	VOLTAGE DETECT
Q272	ISS133	DECOUPLING MUTE AUDIO
Q501	ISS133	START
Q504	GP080	V PULSE OUT
Q506	DA204K	CURRENT
Q508	ISS133	CANAL +BLK LEVEL
Q509	ISS133	V LIN
Q511	GP080	PROT
Q512	GP080	PROT
Q513	MTZJ4.7B	PROT
Q601	D4SB60L-F	AC RECT
Q602	RGP10G	REF RECT
Q603	GP080	SMPS DRIVE 1
Q604	GP080	SMPS DRIVE 2
Q605	GP080	SMPS DRIVE 3
Q606	RGP10G	+12V RECT
Q607	RGP10G	REF RECT
Q608	ERC25-06S	PLUSE CLIPPER
Q609	MTZJ33A	FAST ON/OFF
Q610	CTU-12S	+14V RECT
Q611	ERD29-08J	+135VRECT
Q612	CTU-12S	+7V RECT
Q613	RGP15J	AF V RECT-1
Q614	RGP15J	AF V RECT-2
Q616	MTZJ6.2B	+12V REG
Q617	ISS133	PROT
Q618	MTZJ5.6B	+12V REF
Q619	MTZJ33A	FAST ON/OFF-2
Q620	DA204K	+12V REF
Q621	MTZJ33A	FAST ON/OFF-3
Q622	ISS133	PROT
Q623	ISS133	DECOUPLING STBY
Q624	ISS133	DECOUPLING STBY
Q630	MTZJ15A	+12V RECT
Q801	RGP10G	+27V RECT
Q802	RGP10G	+200V RECT
Q803	GP080	G2 RECT
Q804	GP080	H CENTER-1
Q805	GP080	H CENTER-2
Q806	ERC06-15S	H DAMPER-1
Q807	ERC06-15S	H DAMPER-2
Q808	ERD29-08J	PIN DAMPER

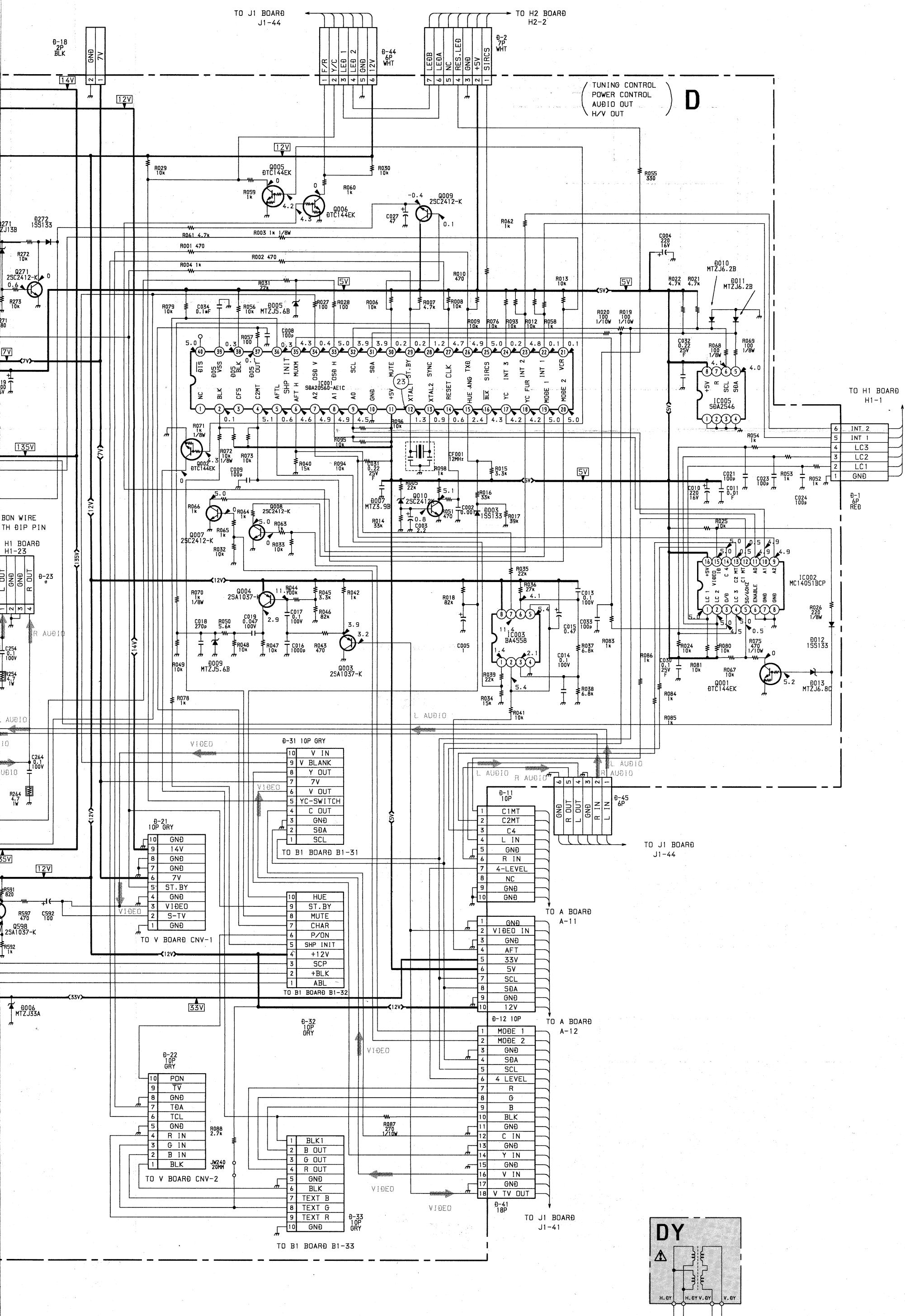


Board

001	SDA2056-AEIC	TUNING CTL
002	MC14051BCP	ON SCREEN DISPLAY
003	BA4558	AFT COMPARATOR
005	SDA2546	MY MEMORY
251	TDA2050	AUDIO OUT (L)
261	TDA2050	AUDIO OUT (R)
501	TEA2028	DEFLECTION PROCESSOR
502	TBA8170	V OUT
601	TEA2260	PRIMARY SMRS CTL
604	TEA7605	+5V REG
608	TYA7812CT	+12V REG
0001	DTCL44EK	50/60Hz SW
0002	DTA144EK	BLK SW
0003	2SA1037-K	SYNC SEPARATOR
0004	2SA1037-K	SYNC SEPARATOR
0005	DTCL44EK	Y/C SW
0006	DTCL44EK	FRONT/REAR SW
0007	2SC2412-K	MODE 2 SWITCH
0008	2SC2412-K	MODE 1 SWITCH
0009	2SC2412-K	MUTE SW
0010	2SC2412-K	RESET
0251	2SC2412-K	AUDIO MUTE
Q261	2SC2412-K	AUDIO MUTE
Q271	2SC2412-K	VOLTAGE DETECT
Q502	2SA1037-K	CONSTANT CURRENT SOURCE
Q505	2SD774	V CENT
Q506	2SB734	V CENT
Q507	2SA1037-K	CANAL +BLK
Q598	2SA1037-K	V1 VIDEO AMP
Q601	2SB1357T114EF	STBY SW
Q602	2SD1548	REG OUT
Q603	2SB1357T114EF	STBY SW
Q604	2SA1037-K	FAST ON/OFF
Q605	2SC2412-K	STBY SW
Q606	2SC2412-K	STBY SW
Q607	2SD2096-EF	+12V REG
Q608	2SC2412K	STBY SW
Q609	2SD789-3	STBY SW
Q801	2SC2412-K	ABL AMP
Q804	BU508ASIH	H OUT
Q805	2SC2688	H DRIVER
0003	ISS133	HUE CTL
0005	MTZJ5.6B	PROT
0006	MTZJ33A	VC VOLTAGE REGULATION
0007	MTZJ3.9B	PLOT RESET
0009	MTZJ5.6B	CLIPPING SYNC LEVEL
0010	MTZJ6.2B	PROT
0011	MTZJ6.2B	PROT
0012	ISS133	PROT
0013	MTZJ6.8C	PROT
0271	MTZJ13B	VOLTAGE DETECT
0272	ISS133	DECOUPLING MUTE AUDIO
0501	ISS133	START
0504	GP08D	V PULSE OUT
0506	DA204K	CURRENT
0508	ISS133	CANAL +BLK LEVEL
0509	ISS133	V LIN
0511	GP08D	PROT
0512	GP08D	PROT
0513	MTZJ4.7B	PROT
0601	4S5B60L-F	AC RECT
0602	RGP10G	REF RECT
0603	GP08D	SMPS DRIVE 1
0604	GP08D	SMPS DRIVE 2
0605	GP08D	SMPS DRIVE 3
0606	RGP10G	+12V RECT
0607	RGP10G	REF RECT
0608	ERC25-065	PLUSE CLIPPER
0609	MTZJ33A	FAST ON/OFF
0610	CTU-12S	+14V RECT
0611	ER029-08J	+135VRECT
0612	CTU-12S	+7V RECT
0613	RGP15J	AF V RECT-1
0614	RGP15J	AF V RECT-2
0616	MTZJ6.2B	+12V REG
0617	ISS133	PROT
0618	MTZJ5.6B	+12V REF
0619	MTZJ33A	FAST ON/OFF-2
0620	DA204K	+12V REF
0621	MTZJ33A	FAST ON/OFF-3
0622	ISS133	PROT
0623	ISS133	DECOUPLING STBY
0624	ISS133	DECOUPLING STBY
0630	MTZJ15A	+12V RECT
0801	RGP10G	+27V RECT
0802	RGP10G	+200V RECT
0803	RGP02-17	G2 RECT
0804	GP08D	H CENTER-1
0805	GP08D	H CENTER-2
0806	ERC06-155	H DAMPER-1
0807	ERC06-155	H DAMPER-2
0808	ER029-08J	PIN DAMPER

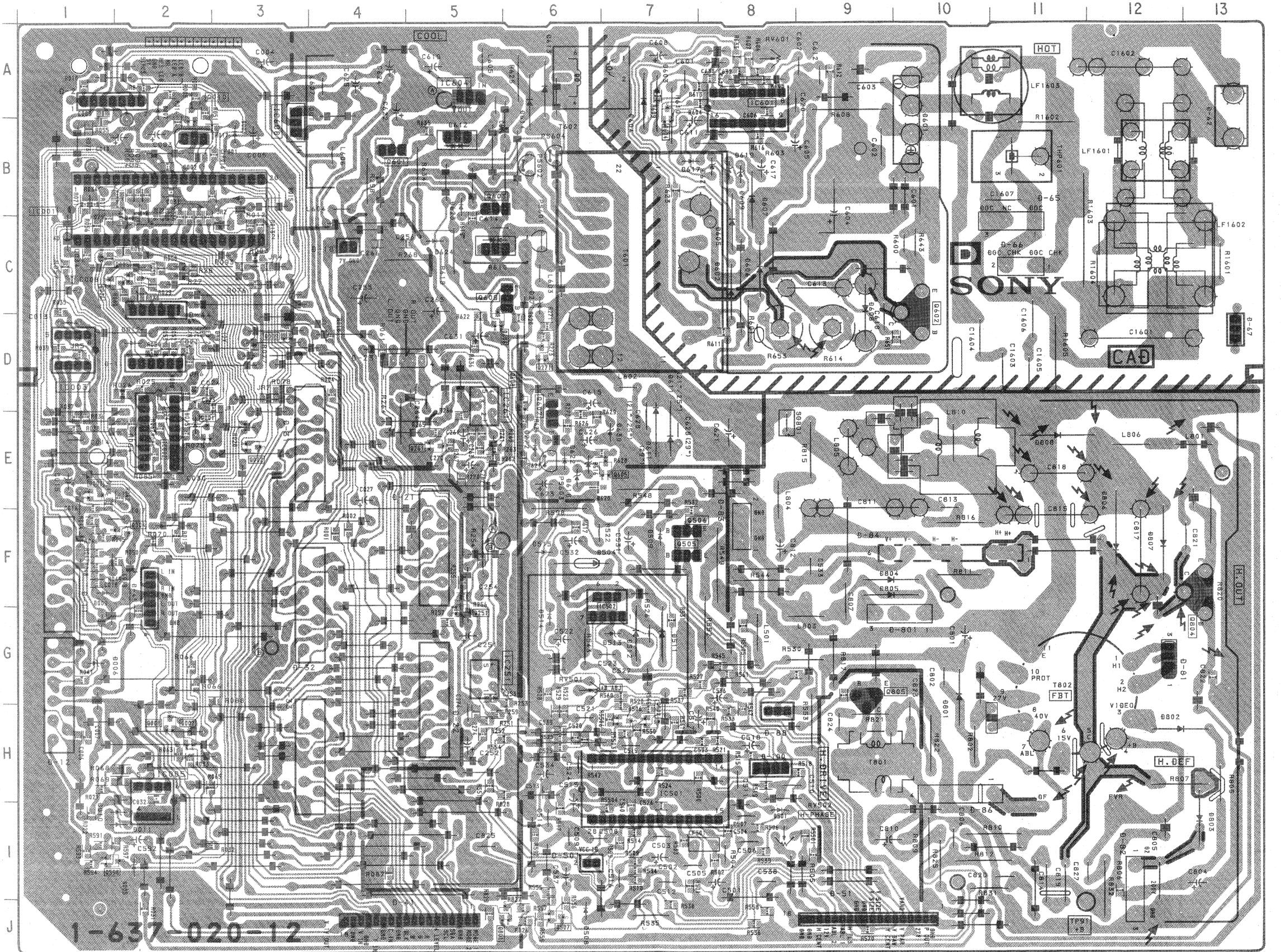




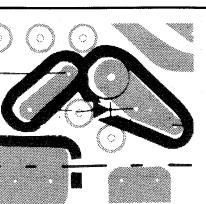


D [TUNING CONTROL POWER CONTROL]
AUDIO OUT H/V OUT

- D Board -



IC	D013 D271 D272 D501 D504 D508 IC251 IC261 IC501 IC502 IC601 IC604 IC608	E - 2 C - 6 E - 6 I - 8 F - 6 J - 6 G - 5 D - 5 H - 7 G - 7 G - 7 A - 8 A - 5 B - 3
TRANSISTOR	Q001 Q002 Q003 Q004 Q005 Q006 Q007 Q008 Q009 Q010 Q251 Q261 Q271 Q502 Q505 Q506 Q507 Q598 Q601 Q602 Q603 Q604 Q605 Q606 Q608 Q609 Q801 Q804 Q805	E - 2 E - 3 E - 1 F - 2 C - 2 C - 1 H - 2 H - 2 D - 3 A - 2 G - 5 E - 5 D - 6 H - 7 F - 7 F - 7 J - 6 B - 4 C - 10 B - 5 C - 5 E - 7 H - 12 I - 13 D - 5 D - 6 D - 6 B - 5
TP	TP91 (+ B)	J - 11
DIODE	D003 D005 D006 D007 D009 D010 D011 D012	B - 3 I - 2 G - 1 B - 2 F - 1 I - 2 I - 2 D - 2
VARIABLE RESISTOR	RV501 RV502 RV601	G - 6 I - 8 A - 8



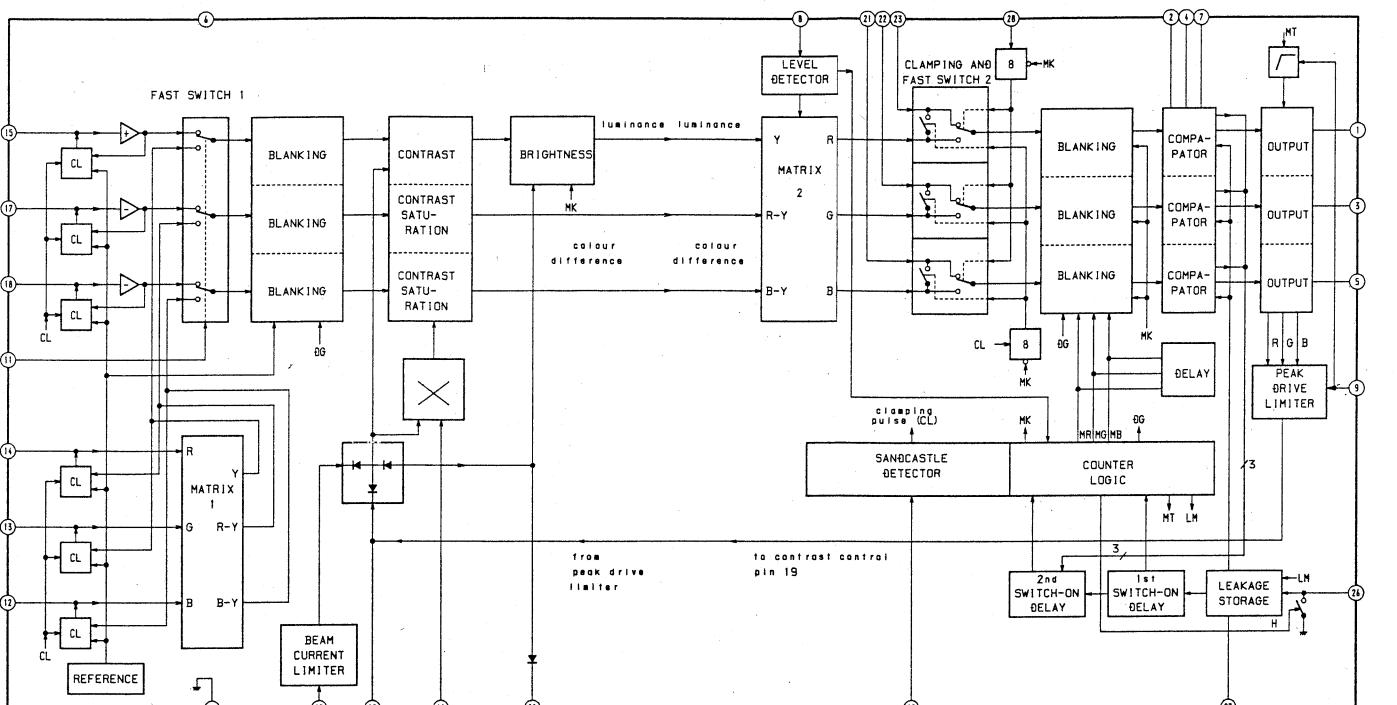
NOTE:
The circuit indicates
600 Vp-p. Care must
be taken during inspection or repair.

IC	D013 E - 2
	D271 C - 6
01	B - 2
02	E - 2
03	D - 1
05	H - 2
51	G - 5
61	D - 5
01	H - 7
02	G - 7
01	A - 8
04	A - 5
08	B - 3
TRANSISTOR	
01	E - 2
02	E - 3
03	E - 1
04	F - 2
05	C - 2
06	C - 1
07	H - 2
08	H - 2
09	D - 3
10	A - 2
51	G - 5
61	E - 5
71	D - 6
02	H - 7
05	F - 7
06	F - 7
07	J - 6
98	I - 2
01	B - 4
02	C - 10
03	B - 5
04	A - 7
05	E - 7
06	D - 5
07	D - 6
08	D - 6
09	C - 5
01	J - 6
04	G - 13
05	G - 9
TP	
DIODE	TP91 J - 11 (+ B)
03	B - 3
05	I - 2
06	G - 1
07	B - 2
09	F - 1
10	I - 2
11	I - 2
12	D - 2
VARIABLE RESISTOR	RV501 G - 6
	RV502 I - 8
	RV601 A - 8

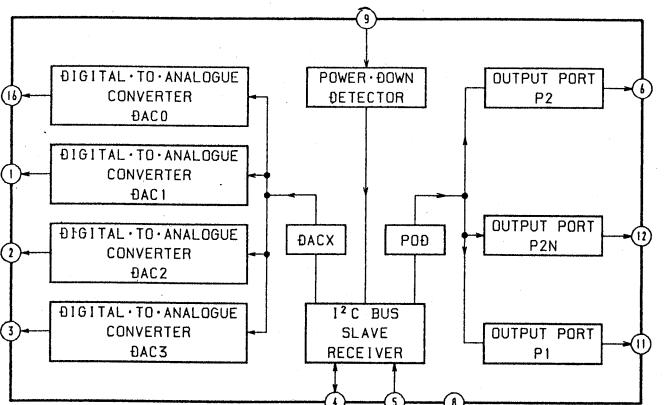
NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

B1 Board IC301 TDA4580-V4



B1 Board IC302 TDA8442-N3

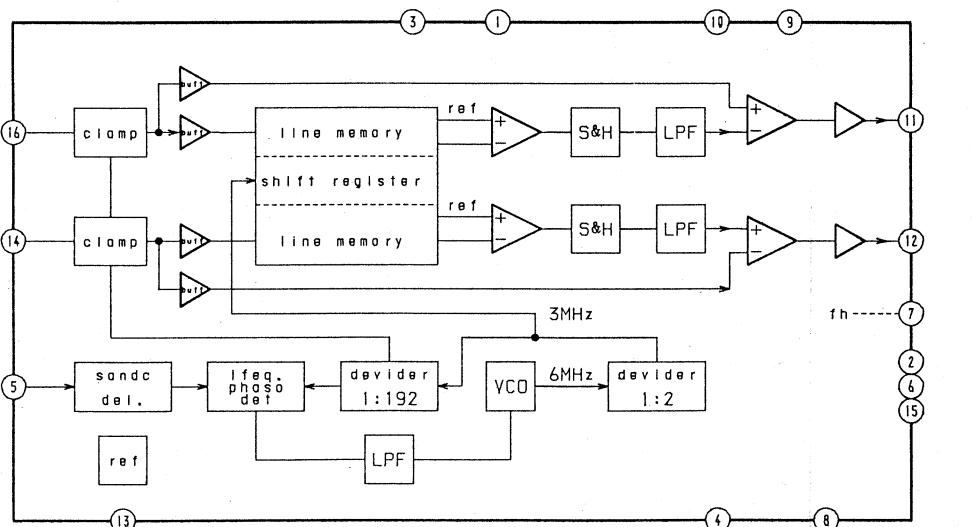


IC	
IC301	E - 6
IC302	D - 5
IC303	C - 6
IC304	C - 7
IC305	B - 6
IC306	E - 8
IC308	E - 7
IC310	A - 6
IC311	A - 5
IC312	A - 7
IC313	A - 6
IC315	A - 7

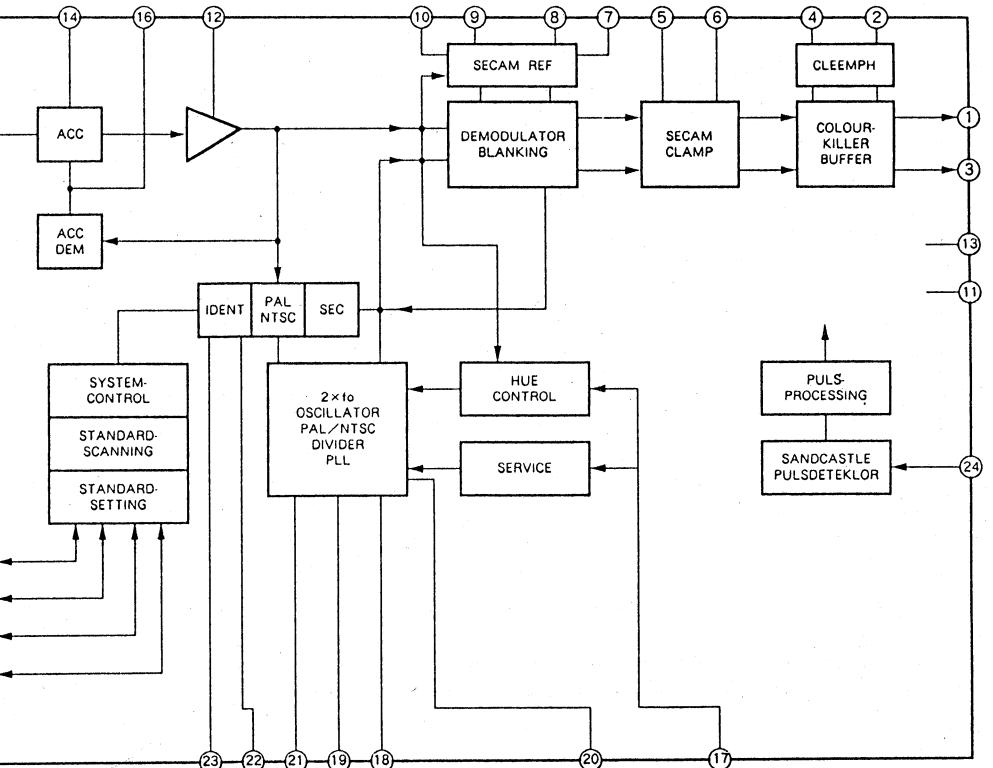
TRANSISTOR

Q301	E - 3
Q302	E - 3
Q303	E - 3
Q304	F - 3
Q305	D - 4
Q306	F - 2
Q307	F - 3
Q308	E - 3
Q310	C - 1
Q311	C - 1
Q320	C - 2
Q321	B - 2
Q322	B - 3
Q323	C - 3
Q324	C - 2
Q327	E - 1
Q328	E - 1
Q329	E - 1
Q330	E - 1
Q331	E - 1
Q332	E - 1
Q333	E - 2
Q334	D - 2
Q335	D - 1
Q336	C - 1
Q337	C - 2
Q338	D - 1
Q339	D - 2
Q340	D - 2
Q341	D - 1
Q342	D - 2
Q343	E - 1
Q344	D - 1
Q345	D - 1
Q346	D - 2
Q347	E - 1
Q348	D - 2
Q350	B - 3
Q352	B - 1
Q353	A - 1
Q354	B - 1
Q355	B - 2
Q356	B - 1
Q357	B - 1

B BOARD IC303 TDA4660



B1 Board IC304 TDA4650WP



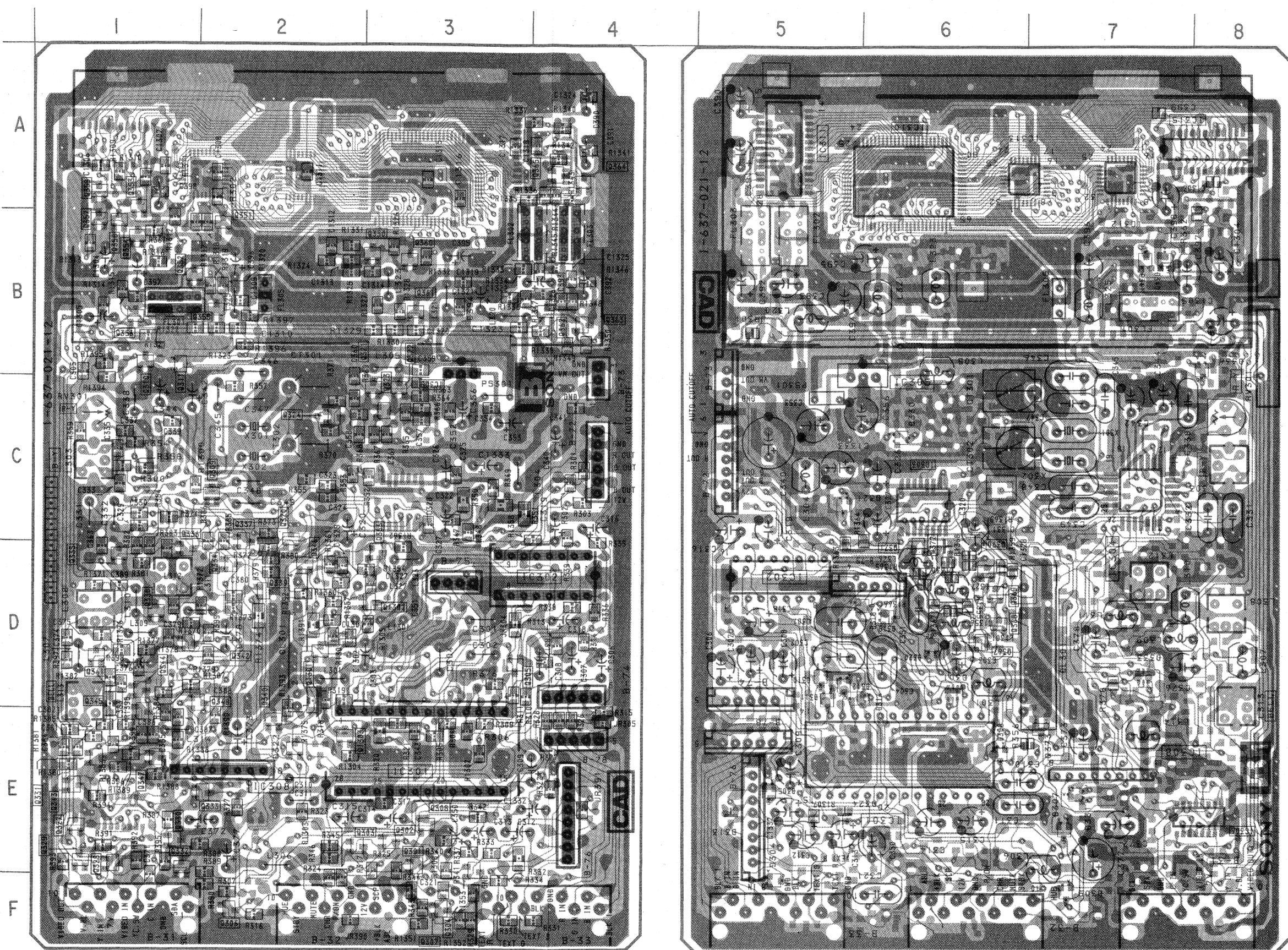
B1

VIDEO PROCESSOR, COLOR PROCESSOR
Y/C SW, D/A CONVERTER, MEMORY,
A/D CONVERTER

- B1 Board -

- : pattern from the side which enables seeing.
- : pattern of the rear side.

IC	Q360 B - 3
	Q361 B - 3
	Q362 B - 4
	Q363 B - 4
	Q364 A - 4
	Q365 A - 4
	Q366 C - 3
	Q367 D - 6
	Q368 D - 6
	Q369 D - 6
	Q370 D - 6
	Q371 D - 6
	Q372 D - 6
	Q373 E - 6
	Q1301 D - 2
	Q1302 D - 3
	Q1303 E - 2
TRANSISTOR	
Q301 E - 3	
Q302 E - 3	
Q303 E - 3	
Q304 F - 3	D301 D - 6
Q305 D - 4	D304 E - 5
Q306 F - 2	D305 E - 5
Q307 F - 3	D307 E - 7
Q308 E - 3	D308 E - 6
Q310 C - 1	D309 F - 7
Q311 C - 1	D310 D - 5
Q320 C - 2	D311 D - 5
Q321 B - 2	D312 D - 5
Q322 B - 3	D314 D - 6
Q323 C - 3	D318 D - 6
Q324 C - 2	D319 D - 6
Q327 E - 1	D320 D - 6
Q328 E - 1	D321 C - 6
Q329 E - 1	D322 E - 2
Q330 E - 1	D330 C - 6
Q331 E - 1	D331 E - 7
Q332 E - 1	D333 D - 7
Q333 E - 2	D336 B - 8
Q334 D - 2	D340 B - 7
Q335 D - 1	D341 B - 7
Q336 C - 1	
Q337 C - 2	
Q338 D - 1	
Q339 D - 2	
Q340 D - 2	
Q341 D - 1	RV301 C - 8
Q342 D - 2	
Q343 E - 1	
Q344 D - 1	
Q345 D - 1	
Q346 D - 2	
Q347 E - 1	
Q348 D - 2	
Q350 B - 3	
Q352 B - 1	
Q353 A - 1	L303 C - 8
Q354 B - 1	L308 D - 8
Q355 B - 2	L312 D - 7
Q356 B - 1	L313 D - 8
Q357 B - 1	
VARIABLE RESISTOR	
TRMMER	
CT301 C - 6	
CT302 C - 6	
COIL	
L303 C - 8	
L308 D - 8	
L312 D - 7	
L313 D - 8	



A

B

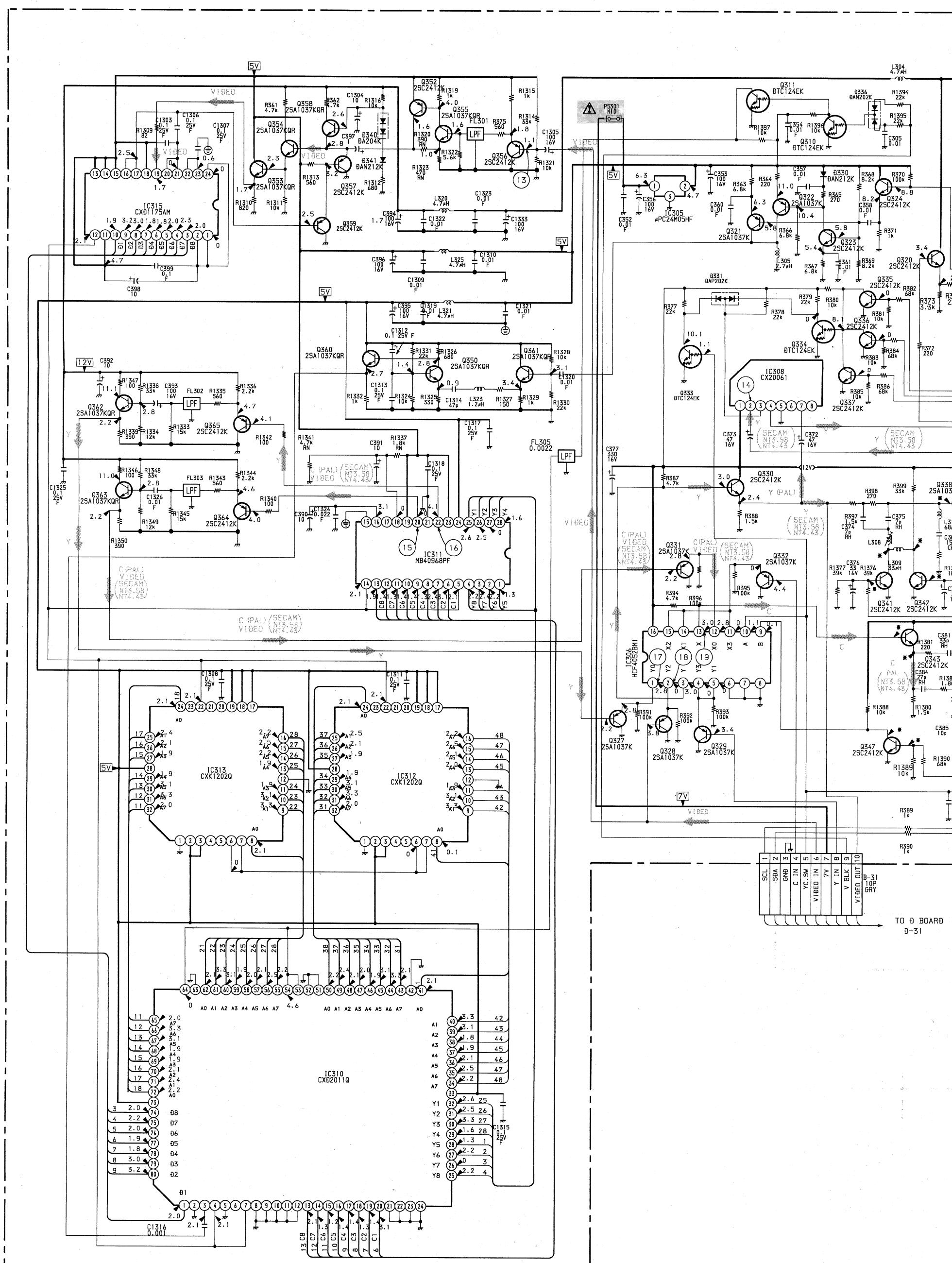
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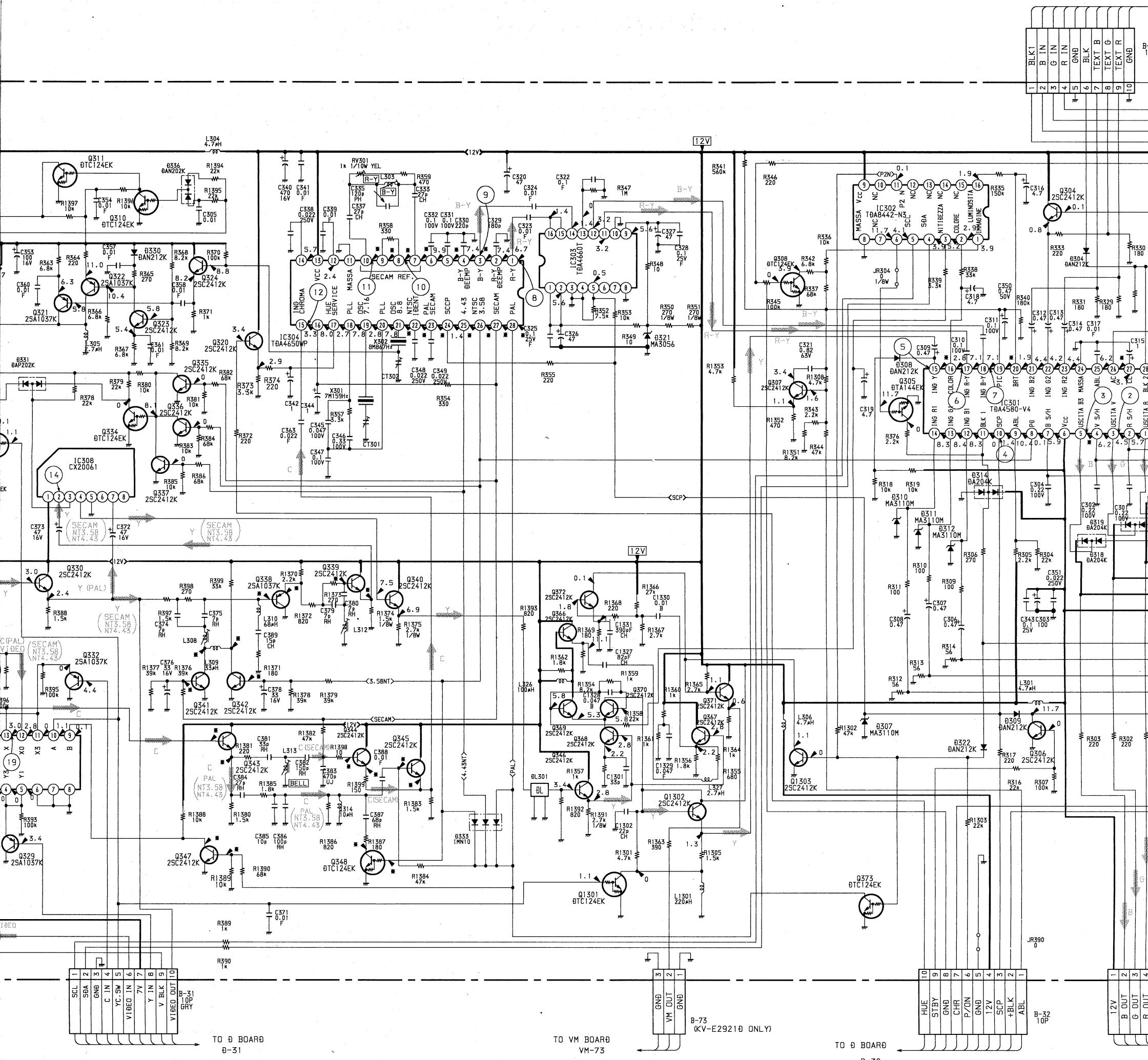
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J

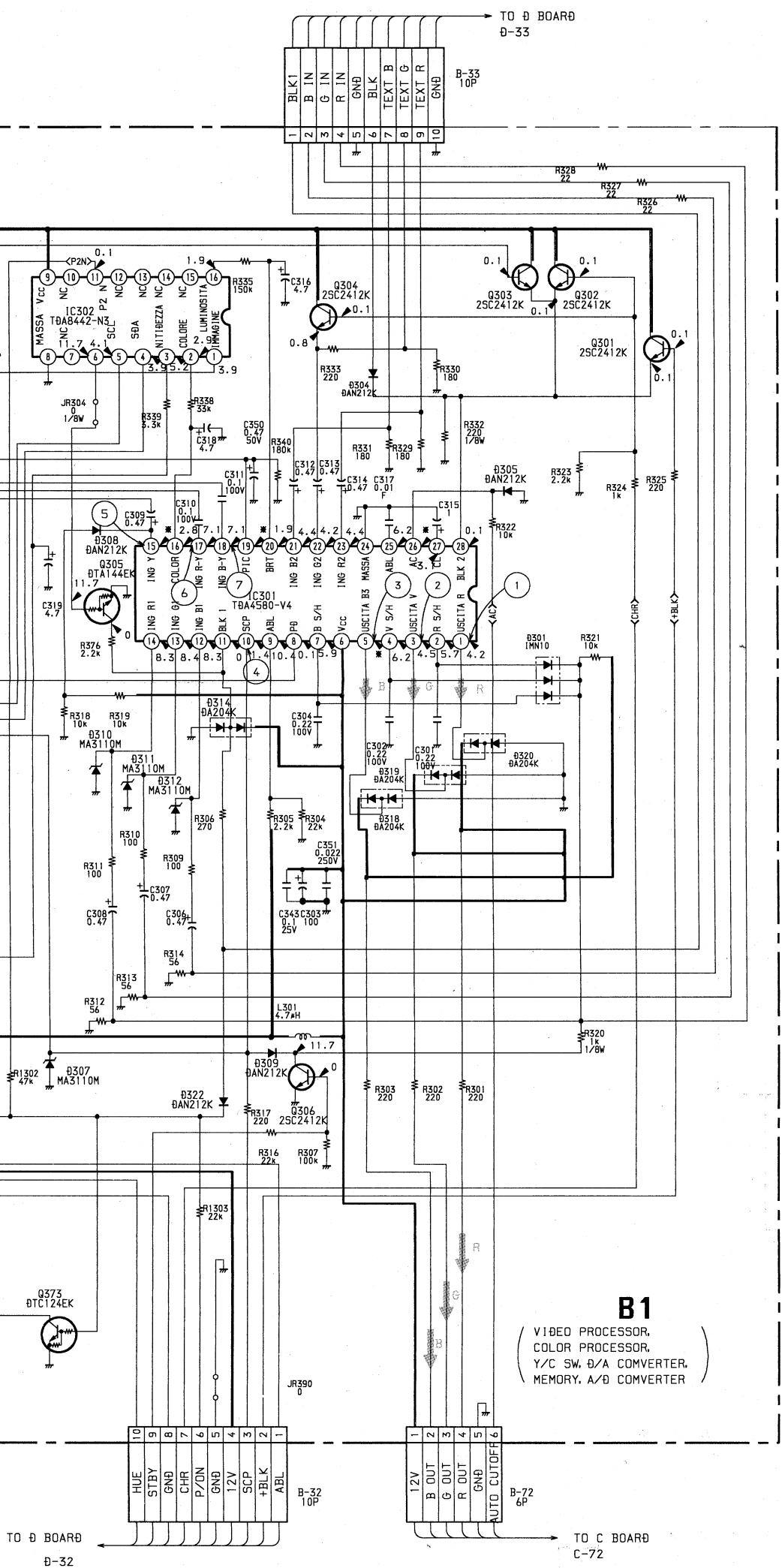
1

1





B1 Board



VIDEOPROCESSOR,
COLOR PROCESSOR,
Y/C SW. D/A CONVERTER,
MEMORY, A/D CONVERTER

As to the voltage value shown by the mark \ast on the Schematic Diagram, see the another list.

B1 Board

IC·NO	PIN·NO	PAL	SECAM	NTSC 3.38	NTSC 4.43
IC301	(5)	5.1	4.8	4.8	4.8
	(15)	7.3	7.0	7.0	7.0
	(19)	3.1	3.4	3.8	3.4
	(26)	6.6	6.6	6.0	6.3
	(3)	6.8	6.8	6.9	6.8
	(5)	9.9	10.1	9.9	9.9
	(7)	4.3	3.5	4.6	4.6
	(8)	3.4	3.0	3.4	3.4
	(9)	3.4	3.0	3.4	3.4
	(10)	4.3	3.4	4.6	4.6
IC304	(21)	2.3	3.1	3.1	2.3
	(22)	5.6	5.6	5.6	7.4
	(23)	7.5	7.5	5.7	5.7
	(25)	0	1.4	5.9	5.9
	(26)	0	0	0	0
	(27)	0	5.9	0	0
	(28)	5.9	0	0	0

Q·NO		PAL
Q338	B	2.6
	E	3.3
Q339	B	3.2
	E	3.6
Q341	B	0
	C	11.8
Q342	B	0
	C	11.7
Q343	B	3.2
	E	2.6
Q344	B	0
	E	4.0
Q345	B	4.6
	E	4.0
Q347	B	0.6
	C	0.1
Q348	B	0.1

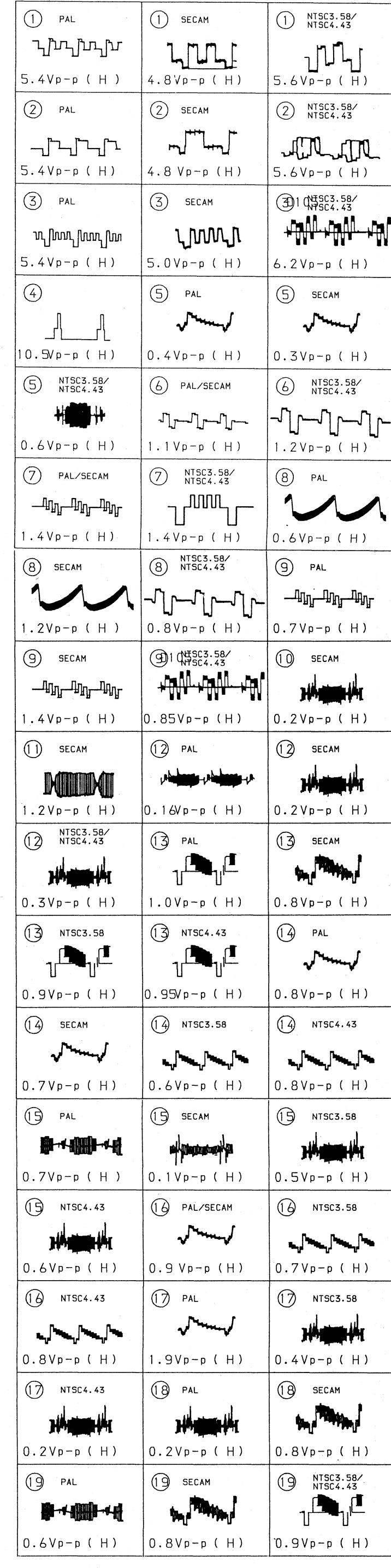
B1 Board

IC301	TDA4580-V4	VIDEO PROCESSOR
IC302	TDA8442-N3	D/A CONVERTER
IC303	TDA4660T	1H DELAY
IC304	TDA4650WP	COLOR PROCESSOR
IC305	APC24M05HF	REGULATOR
IC306	HCF4052BM1	Y/C SW
IC308	CX20061	Y INTERRUPT
IC310	CX02011Q	COMB CONTROL
IC311	MB40968PF	D/A CONVERTER
IC312	CXK1202Q	MEMORY
IC313	CXK1202Q	MEMORY
IC315	CX01175AM	A/D CONVERTER
Q301	2SC2412K	CANAL +BLK
Q302	2SC2412K	ON SCREEN DISPLAY SW
Q303	2SC2412K	FAS PICTURE MUTE SW
Q304	2SC2412K	ON SCREEN DISPLAY SW
Q305	DTA144EK	ANIT PRIORITY SCART
Q306	2SC2412K	STBY SW
Q307	2SC2412K	ABL
Q308	DTCL24EK	MUTE
Q310	DTCL24EK	SECAM SW
Q311	DTCL24EK	SECAM SW
Q320	2SC2412K	HUE BUFFER
Q321	2SA1037K	CLK AMP3
Q322	2SA1037K	CLK AMP2
Q323	2SC2412K	CLK AMP1
Q324	2SC2412K	CLK BUFFER
Q327	2SA1037K	Y OUT
Q328	2SA1037K	VIDEO IN
Q329	2SA1037K	Y IN
Q330	2SC2412K	VIDEO BUFFER
Q331	2SA1037K	C OUT
Q332	2SA1037K	C IN
Q333	DTCL24EK	Y/C SW
Q334	DTCL24EK	Y SW
Q335	2SC2412K	SECAM SW
Q336	2SC2412K	NTSC (3.58) SW
Q337	2SC2412K	NTSC (4.43) SW
Q338	2SA1037K	Y BUFFER
Q339	2SC2412K	Y BUFFER
Q340	2SC2412K	Y BUFFER
Q341	2SC2412K	SECAM TRAP SW
Q342	2SC2412K	NTSC TRAP SW
Q343	2SC2412K	C OUT
Q344	2SC2412K	SECAM SW
Q345	2SC2412K	PAL/SECAM SW
Q346	2SC2412K	Y IN
Q347	2SC2412K	PAL SW
Q348	DTCL24EK	NTSC (3.58) SW
Q350	2SA1037KQR	CLK AMP
Q352	2SC2412K	VIDEO AMP
Q353	2SA1037KQR	BUFFER
Q354	2SA1037KQR	BUFFER
Q355	2SA1037KQR	VIDEO AMP
Q356	2SC2412K	VIDEO BUFFER
Q357	2SC2412K	CLAMP BIAS
Q358	2SA1037KQR	VIDEO CLAMP
Q359	2SC2412K	CLAMP BIAS
Q360	2SA1037KQR	CLK BUFFER
Q361	2SA1037KQR	CLK AMP
Q362	2SA1037KQR	Y BUFFER
Q363	2SA1037KQR	C BUFFER
Q364	2SA1162	C BUFFER
Q365	2SA1162	Y BUFFER
Q366	2SC2412K	SHP BUFFER
Q367	2SC2412K	Y BUFFER
Q368	2SC2412K	SHP AMP
Q369	2SC2412K	SHP AMP
Q370	2SC2412K	SHP AMP
Q371	2SC2412K	VM BUFFER
Q372	2SC2412K	VM AMP
Q373	DTCL24EK	SYSTEM SW
Q1301	DTCL24EK	Y BUFFER
Q1302	2SC2412K	Y BUFFER
Q1303	2SC2412K	VM MUTE
D301	1MN10	ACO AT STBY
D304	DAN212K	PROTECT
D305	DAN212K	PROTECT
D307	MA3110M	PROTECT
D308	DAN212K	PROTECT
D309	DAN212K	PROTECT
D310	MA3110M	PROTECT
D311	MA3110M	PROTECT
D312	MA3110M	PROTECT
D314	DA204K	PROTECT
D318	DA204K	PROTECT
D319	DA204K	PROTECT
D320	DA204K	PROTECT
D321	MA3056	REG
D322	DAN212K	PROTECT
D330	DAN212K	BIAS
D331	DAP202K	Y/C SW
D333	1MN10	SYSTEM SW
D336	DAN202K	CORRECT SW
D340	DA204K	VIDEO AMP
D341	DAN212K	VIDEO AMP

The voltage value shown by the \downarrow on the Schematic Diagram, see other list.

B1 Board

IC·NO	PIN·NO	PAL	SECAM	NTSC 3.38	NTSC 4.43
IC301	(5)	5.1	4.8	4.8	4.8
	(15)	7.3	7.0	7.0	7.0
	(19)	3.1	3.4	3.8	3.4
	(26)	6.6	6.6	6.0	6.3
IC304	(3)	6.8	6.8	6.9	6.8
	(5)	9.9	10.1	9.9	9.9
	(7)	4.3	3.5	4.6	4.6
	(8)	3.4	3.0	3.4	3.4
	(9)	3.4	3.0	3.4	3.4
	(10)	4.3	3.4	4.6	4.6
	(21)	2.3	3.1	3.1	2.3
	(22)	5.6	5.6	5.6	7.4
	(23)	7.5	7.5	5.7	5.7
	(25)	0	1.4	5.9	5.9
	(26)	0	0	0	0
	(27)	0	5.9	0	0
	(28)	5.9	0	0	0

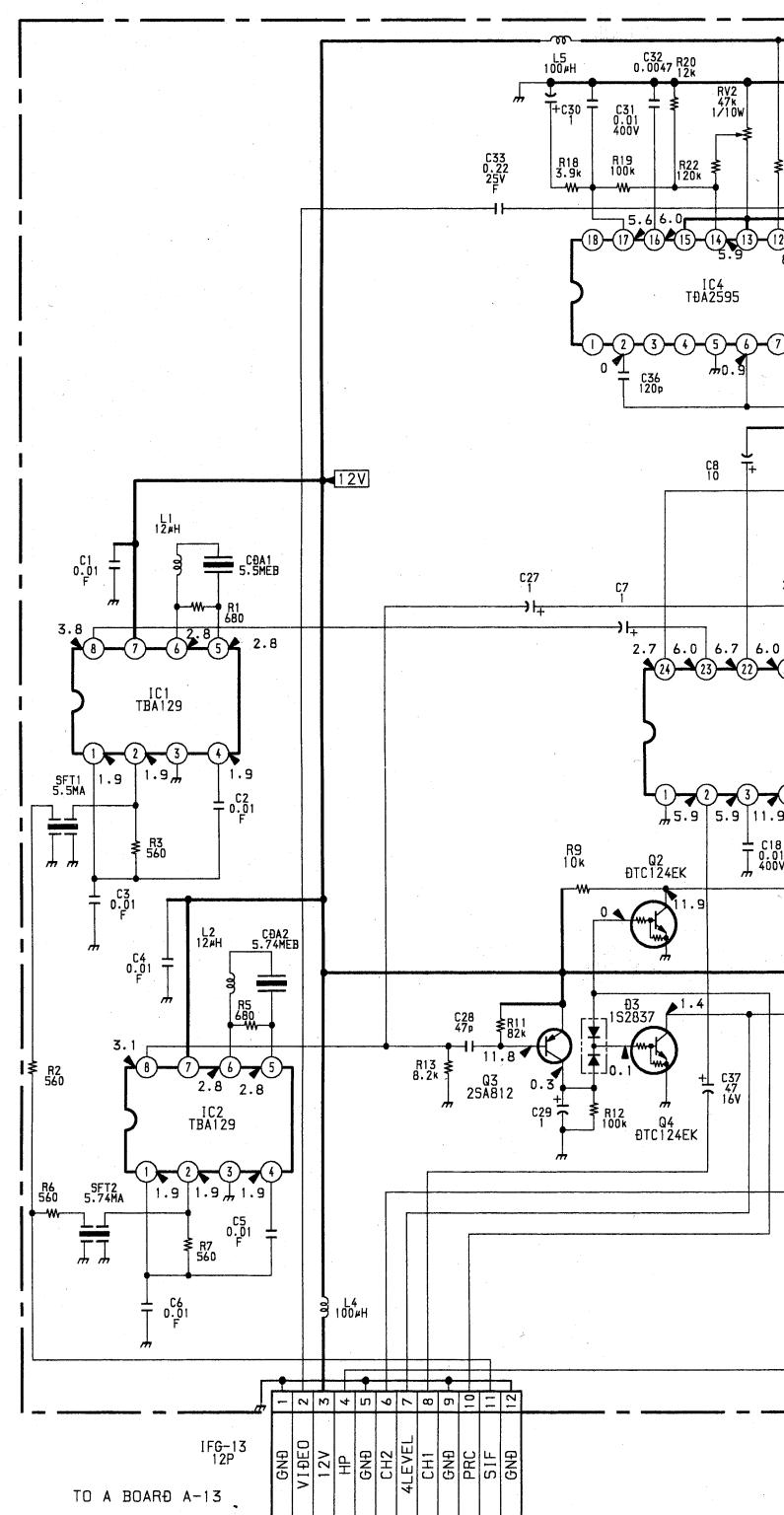
Waveforms B1 Board

1 2 3 4 5 6 7 8 9 10 11

V Board

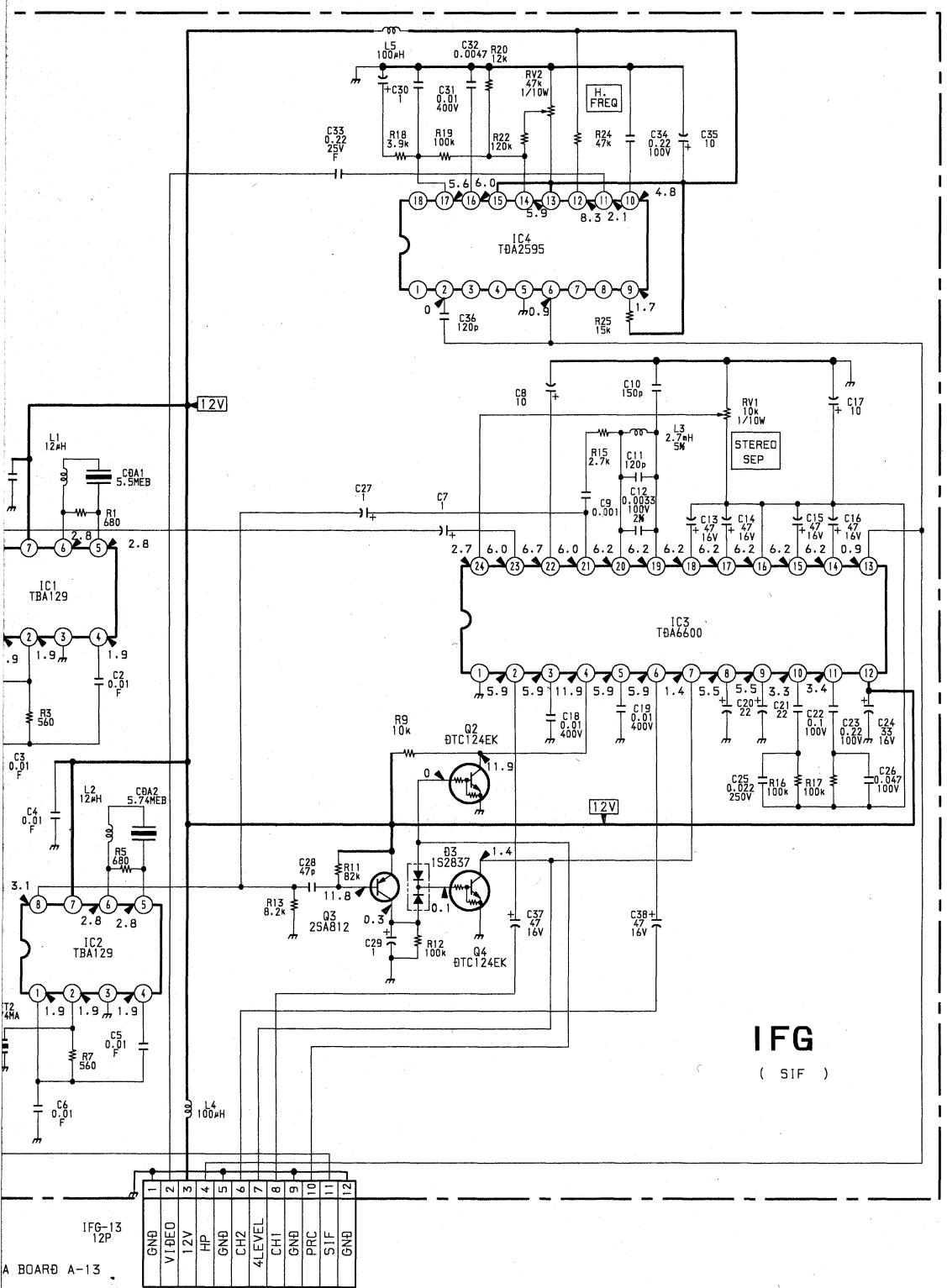
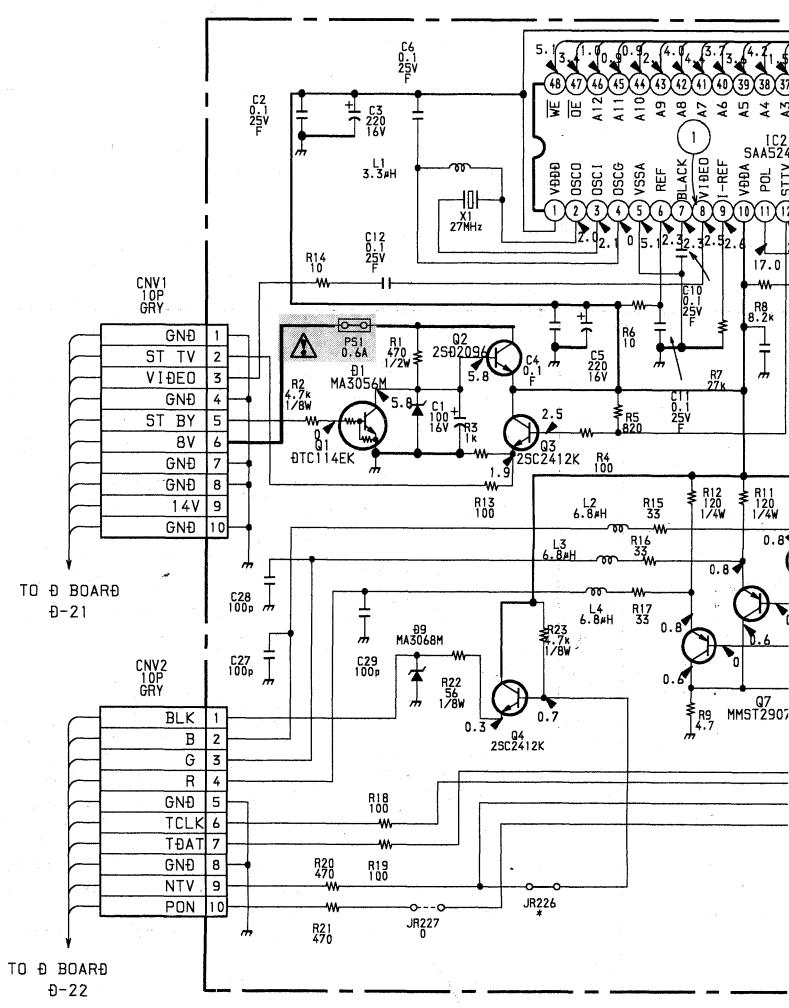
IC1	S0A20162-A002
IC2	SAA5246E
IC3	FCB61C65-70P
Q1	DTG114EK
Q2	2S02096
Q3	2SC2412K
Q4	2SC2412K
Q5	MMST2907A
Q6	MMST2907A
Q7	MMST2907A
Q8	2SC2412K
D1	MA3056M
D3	DAP202K
D4	DAN202K
D5	DAP202K
D6	DAN202K
D7	MA3036H
D9	MA3068M

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P

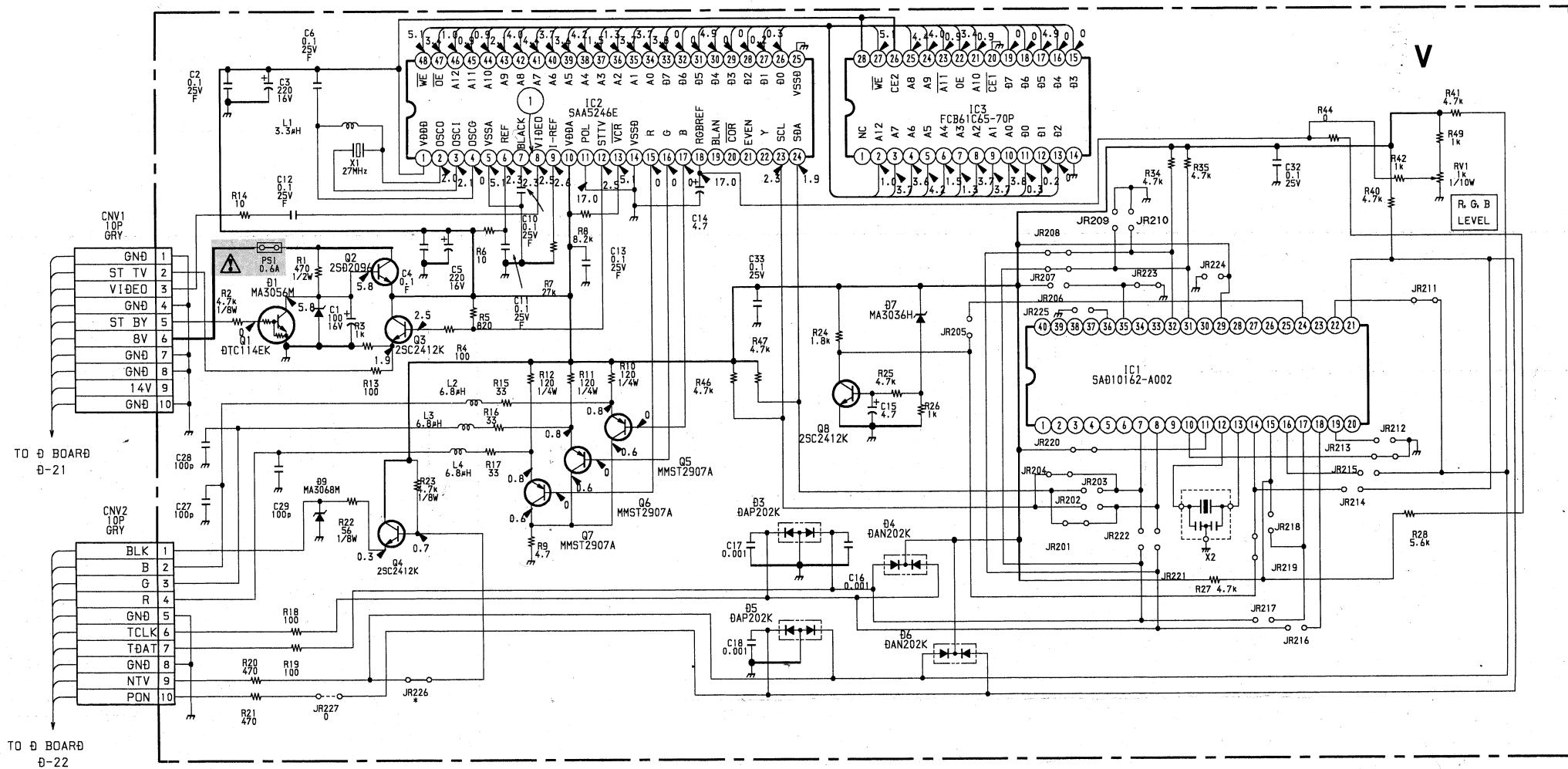


V Board

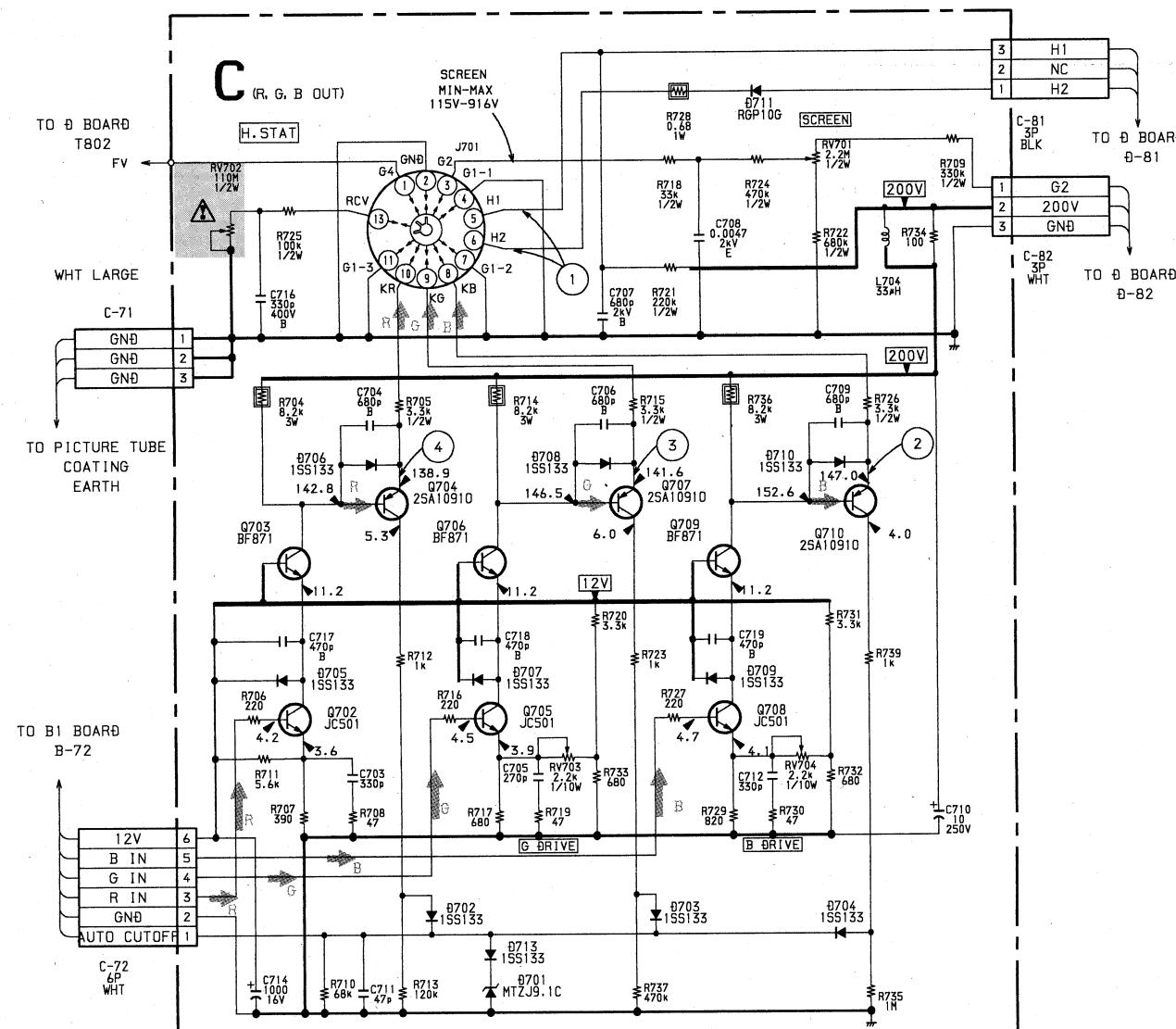
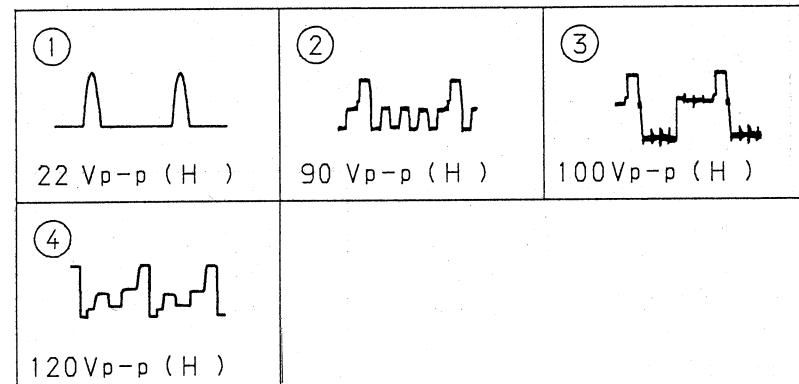
IC1	S0A20162-A002	MICRO-CONT
IC2	SAA5246E	IVT
IC3	FCC61C65-70P	STATIC-RAM
Q1	DTCL114EK	STANDBY
Q2	2SD2096	5V REG
Q3	2SC2412K	SYNC BUFFER
Q4	2SC2412K	BLK OUT
Q5	MMST2907A	B OUT
Q6	MMST2907A	G OUT
Q7	MMST2907A	R OUT
Q8	2SC2412K	PON SW
Q1	MA3056M	5V REG
Q3	DAF202K	PROTEC
Q4	DAN202K	PROTEC
Q5	DAP202K	PROTEC
Q6	DAN202K	PROTEC
Q7	MA3036H	PROTEC
Q9	MA3068M	PROTEC

**C Board**

Q702	JCS01	R DRIVE
Q703	DF871	R OUT
Q704	2SA10910	ACO MEASURING
Q705	JCS01	G DRIVE
Q706	BF871	G OUT
Q707	2SA10910	ACO MEASURING
Q708	JCS01	B DRIVE
Q709	BF871	B OUT
Q710	2SA10910	ACO MEASURING
Q701	MTZJ9.1C	PROTECT
Q702	ISS133	PROTECT
Q703	ISS133	PROTECT
Q704	ISS133	PROTECT
Q705	ISS133	PROTECT
Q706	ISS133	PROTECT
Q707	ISS133	PROTECT
Q708	ISS133	PROTECT
Q709	ISS133	PROTECT
Q710	ISS133	PROTECT
Q711	RGP10G	HEATING VOLTAGE REC
Q713	ISS133	PROTECT



Waveforms C Board



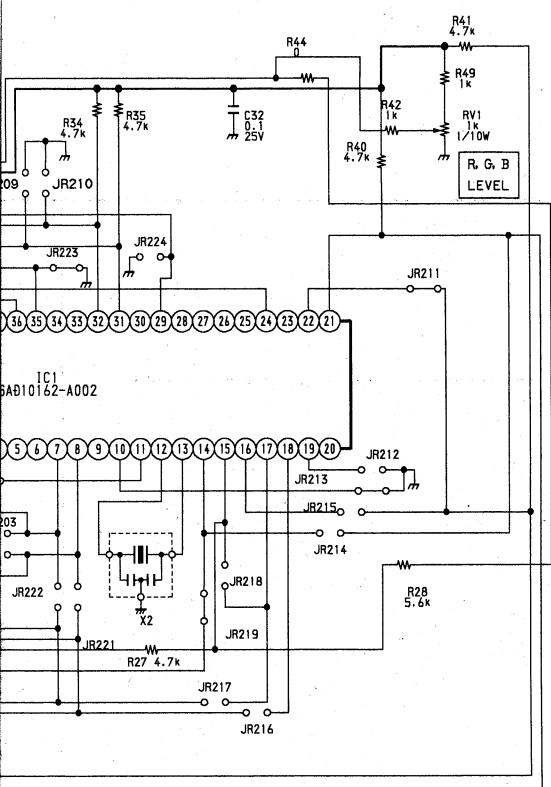
JC501	R DRIVE
BF871	R OUT
2SA10910	ACO MEASURING
JC501	G DRIVE
BF871	G OUT
2SA10910	ACO MEASURING
JC501	B DRIVE
BF871	B OUT
2SA10910	ACO MEASURING
MTZJ9.1C	PROTECT
ISS133	PROTECT
RGP10G	HEATING VOLTAGE REC

V [TELE TEXT]

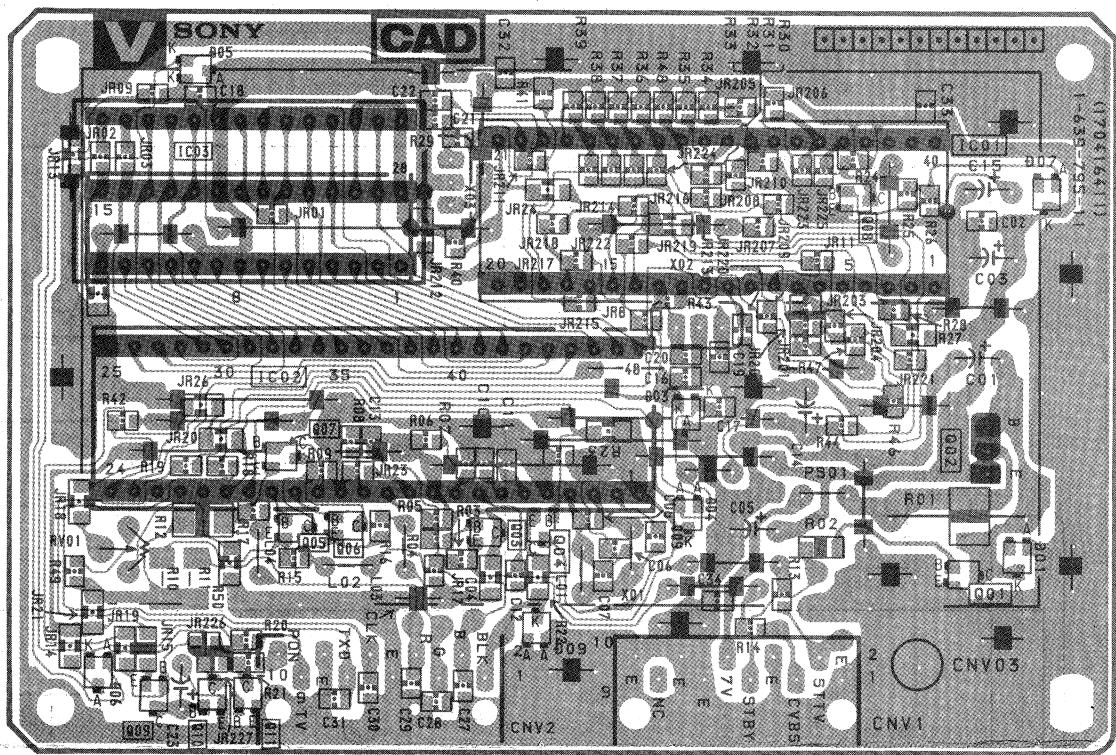
C [R·G·B OUT]

IFG
[SIF]

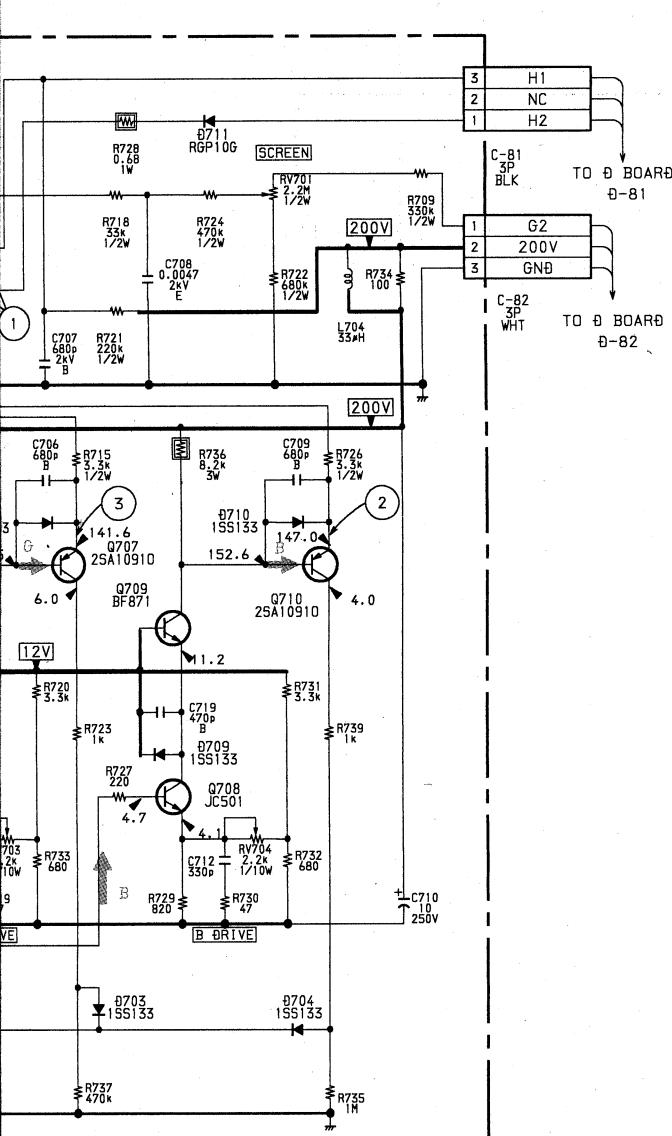
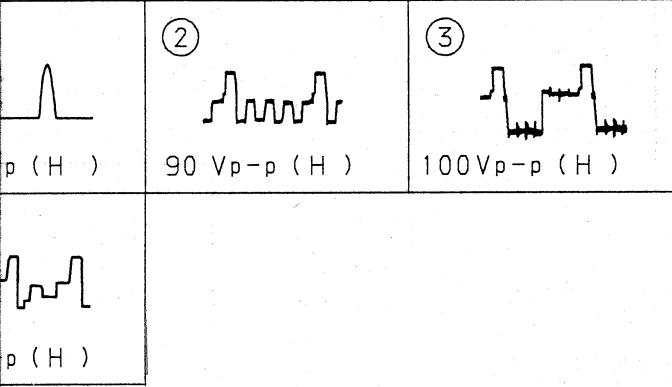
v



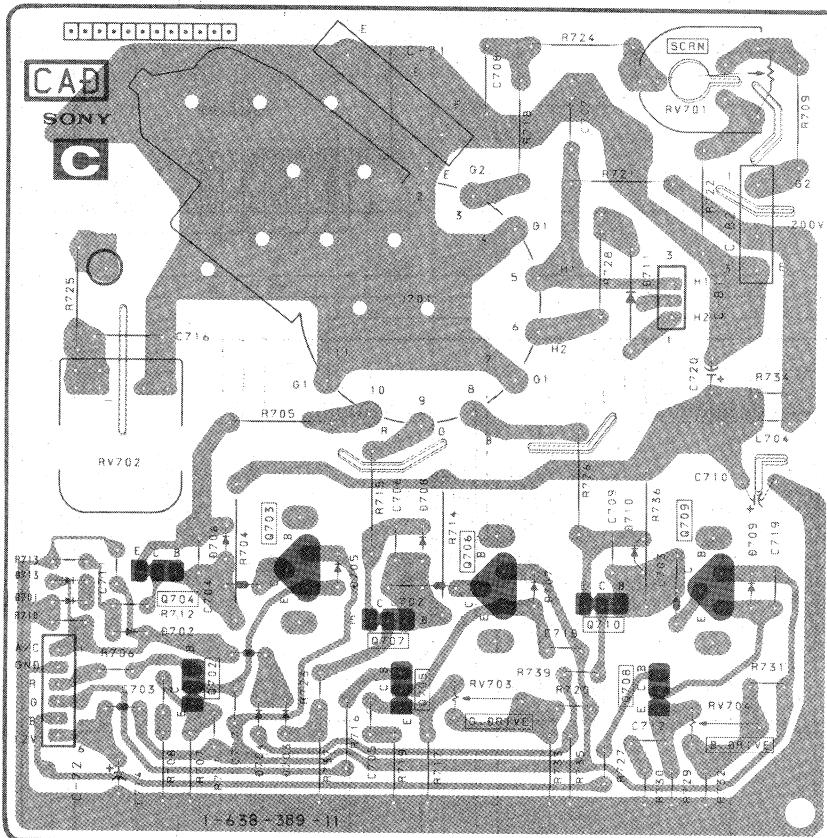
- V Board -



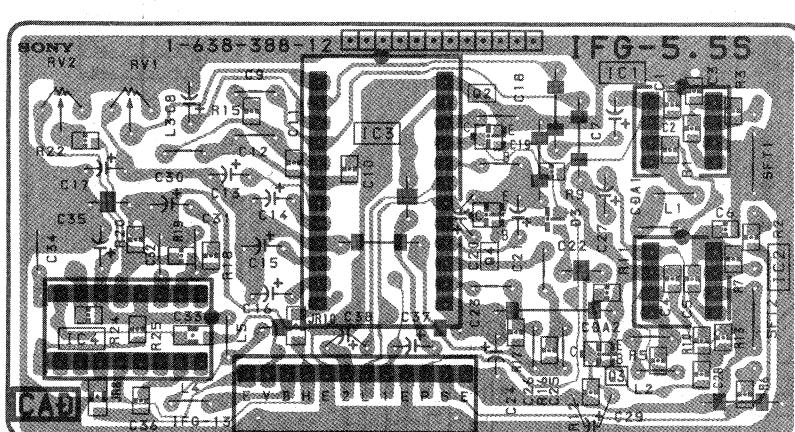
ms C Board



- C Board -

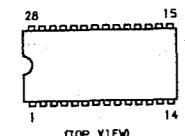


- IEG Board -

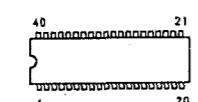


5-4. SEMICONDUCTORS

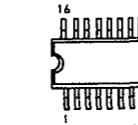
CXA114P
FCB61C65-70P
SAA5246P/E
SDA20162-A002
TDA4580-V6
TDA6200
TEA2028B



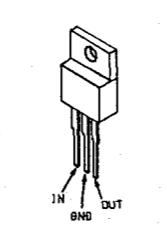
FCB61C65-70P
SDA20560-AE1C



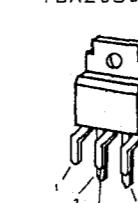
HCF4052BM



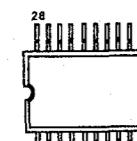
TEA7605
TYA7812CT
μPC24M05HF



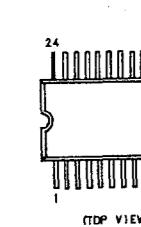
TDA2050



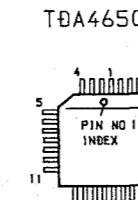
MB4096PF



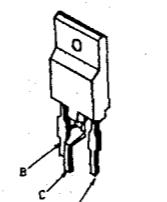
CXD1175AM



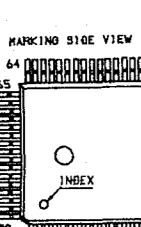
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PCF8574
TC4051BPB
TDA4660T
TDA8442-N3
TEA2260



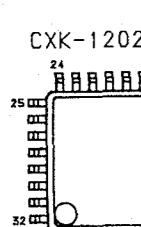
BU508AS1
BU508AS1H
2SD1548-LB



CXD2011Q

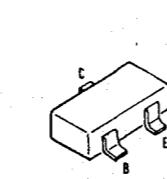


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SDA2546
TBA129
TEA2014A
TEA2031A

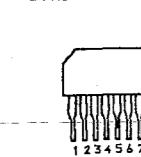


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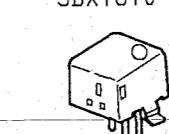
DTA144EK
DTC114EK
DTC124EK
2SA1162-G
2SB1295-UL6
2SC1623-L5L6



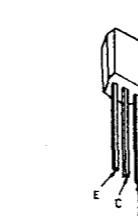
CX20061



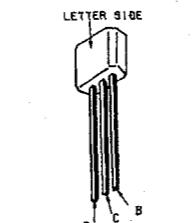
SBX1610-11



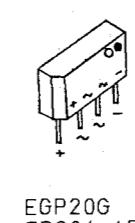
DTCL44ES



2SC2785-HFE



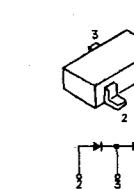
04SB60L-F



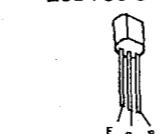
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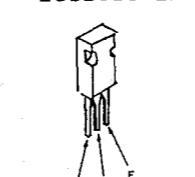
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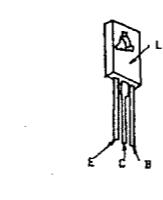
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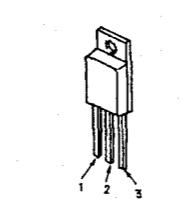
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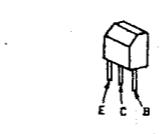
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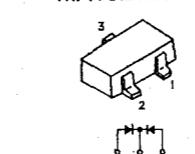
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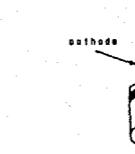
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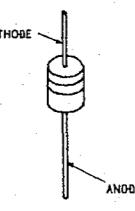
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MA152WK



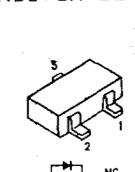
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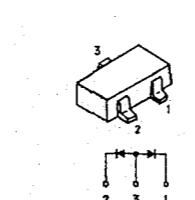
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MTZJ-15A
MTZJ-3.9B
MTZJ-33A
MTZJ-36D
MTZJ-6.2B
MTZN-10C
RD5.6ES-B2
RD6.8ES-B2
RD7.5ES-B2
RD9.1ES-B3
UZ4.7BSC
1SS119



RD11M-B2
RD3.6M-B2
RD5.6M-B2
RD6.8M-B2



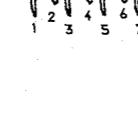
DAP202K



U05G



TDA8170



TOP VIEW

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SECTION 6

EXPLODED VIEWS

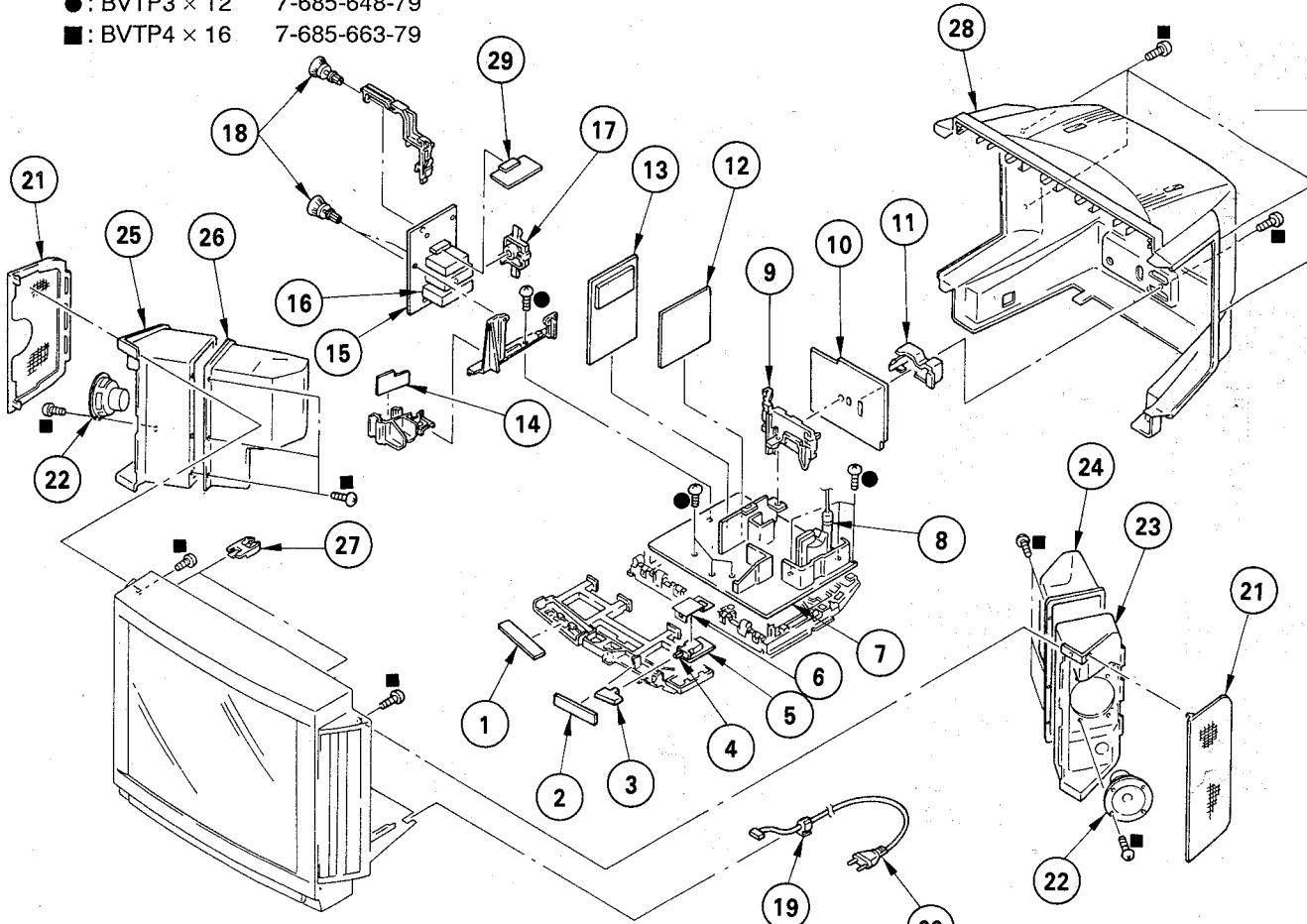
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a callout number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

6-1. CHASSIS

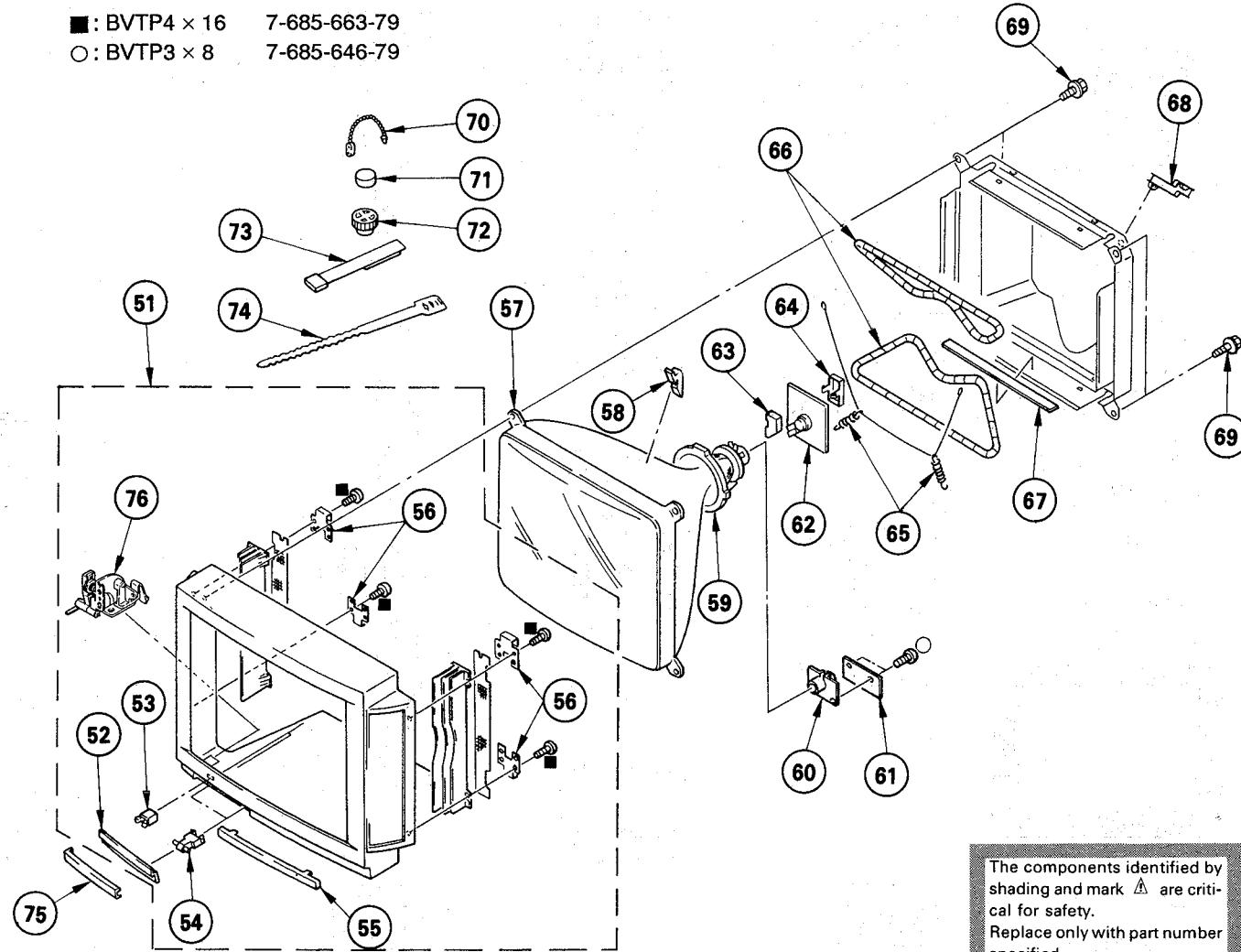
- : BVTP3 x 12 7-685-648-79
- : BVTP4 x 16 7-685-663-79



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	*1-638-391-11	H1 BOARD		16	Δ 1-465-301-11	TUNER, ET (UV-816(PLL))	
2	*1-638-392-11	H2 BOARD		17	*4-386-617-01	HOLDER, TERMINAL	
3	4-031-044-01	BUTTON, POWER		18	*4-386-618-01	RIVET, T TYPE	
Δ 4-571-433-12	SWITCH, PUSH (AC POWER)			19	Δ 4-389-201-02	HOLDER, AC CORD	
5	*1-638-390-11	F BOARD		20	Δ 1-590-501-11	CORD, POWER (WITH NOISE FILTER)	
6	4-200-757-01	COVER, POWER SWITCH		21	X-4029-440-1	GRILLE ASSY, SPEAKER	
7	A-1642-032-A	D BOARD, COMPLETE		22	1-544-475-11	SPEAKER	
8	Δ 1-439-416-51	TRANSFORMER ASSY, FLYBACK (UX-1650)		23	*4-031-094-01	BOARD (RIGHT), BAFFLE	
9	*4-386-624-11	BRACKET, J		24	*4-031-101-01	BOX (RIGHT), SPEAKER	
10	A-1651-020-A	J1 BOARD, COMPLETE		25	*4-031-095-01	BOARD (LEFT), BAFFLE	
11	4-200-014-01	BRACKET, TERMINAL		26	*4-031-102-01	BOX (LEFT), SPEAKER	
12	A-1645-013-A	V BOARD, COMPLETE		27	4-382-745-01	HOLDER, RC	
13	A-1621-015-A	B1 BOARD, COMPLETE		28	4-032-133-01	COVER, REAR	
14	*1-638-393-11	J2 BOARD		29	A-1654-004-A	IFG BOARD, COMPLETE	
15	A-1632-022-A	A BOARD, COMPLETE					

6-2. PICTURE TUBE

- : BVTP4 x 16 7-685-663-79
- : BVTP3 x 8 7-685-646-79



The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	X-4029-713-1	CABINET ASSY (WITH BEZEL ASSY)	76	64	*4-379-160-01	COVER (REAR LID), CV	
52	4-032-134-01	DOOR		65	4-369-318-00	SPRING, TENSION	
53	4-392-036-01	CATCHER, PUSH		66	Δ 1-426-398-11	COIL, DEMAGNETIZATION	
54	3-703-035-11	SHAFT, LID		67	4-389-291-01	CUSHION	
55	4-032-203-01	ORNAMENT WINDOW		68	*4-387-284-01	HOLDER, LEAD	
56	4-031-088-01	BRACKET, SPEAKER		69	4-373-263-01	SCREW (M), PT	
57	Δ 8-733-823-05	PICTURE TUBE (A68JYK60X)		70	4-308-870-00	CLIP, LEAD WIRE	
58	3-704-495-01	SPACER, DY		71	1-452-032-00	MAGNET, DISK; 10MM ϕ	
59	Δ 1-451-313-21	DEFLECTION YOKE (Y29FXA)		72	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
60	Δ 1-452-509-42	NECK ASSY, PICTURE TUBE (NA-308)		73	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
61	*1-634-193-11	VM BOARD		74	3-701-007-00	BAND, BINDING	
62	*A-1638-013-A	C BOARD, COMPLETE		75	4-032-135-01	ORNAMENT DOOR	
63	*4-379-167-01	COVER (MAIN), CV		76	X-4029-878-1	DAMPER ASSY	

SECTION 7

ELECTRICAL PARTS LIST

B1

NOTE:

The components identified by shading and mark **A** are critical for safety.

Replace only with part number specified.

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

CAPACITORS COILS

MF : μF , PF : $\mu\mu\text{F}$ MMH : mH, UH : μH

RESISTORS

- All resistors are in ohms
- F : nonflammable

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
	A-1621-015-A	B1 BOARD, COMPLETE	*****	C342	1-124-903-11	ELECT	1MF 20% 50V
		*****		C343	1-163-038-00	CERAMIC CHIP	0.1MF 25V
				C344	1-124-903-11	ELECT	1MF 50V
				C345	1-137-094-11	FILM	0.047MF 10% 100V
				C346	1-137-033-11	FILM	0.33MF 10% 100V
				C347	1-137-098-11	FILM	0.1MF 10% 100V
				C348	1-137-102-11	FILM	0.022MF 10% 250V
				C349	1-137-102-11	FILM	0.022MF 10% 250V
				C350	1-124-902-00	ELECT	0.47MF 20% 50V
				C351	1-137-102-11	FILM	0.022MF 10% 250V
				C352	1-164-232-11	CERAMIC CHIP	0.01MF 50V
				C353	1-126-101-11	ELECT	100MF 20% 16V
				C354	1-164-232-11	CERAMIC CHIP	0.01MF 50V
				C356	1-126-101-11	ELECT	100MF 20% 16V
				C357	1-164-232-11	CERAMIC CHIP	0.01MF 50V
				C358	1-164-232-11	CERAMIC CHIP	0.01MF 50V
				C360	1-164-232-11	CERAMIC CHIP	0.01MF 50V
				C361	1-164-232-11	CERAMIC CHIP	0.01MF 50V
				C363	1-163-033-00	CERAMIC CHIP	0.022MF 50V
				C371	1-164-232-11	CERAMIC CHIP	0.01MF 50V
				C372	1-124-477-11	ELECT	47MF 20% 16V
				C373	1-124-477-11	ELECT	47MF 20% 16V
				C374	1-163-090-00	CERAMIC CHIP	7PF 0.25PF 50V
				C375	1-163-090-00	CERAMIC CHIP	7PF 0.25PF 50V
				C376	1-124-034-51	ELECT	33MF 20% 16V
				C377	1-124-119-00	ELECT	330MF 20% 16V
				C378	1-124-034-51	ELECT	33MF 20% 16V
				C379	1-163-090-00	CERAMIC CHIP	7PF 0.25PF 50V
				C380	1-163-090-00	CERAMIC CHIP	7PF 0.25PF 50V
				C381	1-163-105-00	CERAMIC CHIP	33PF 5% 50V
				C382	1-163-121-00	CERAMIC CHIP	150PF 5% 50V
				C383	1-163-197-00	CERAMIC CHIP	470PF 5% 50V
				C384	1-163-103-00	CERAMIC CHIP	27PF 5% 50V
				C385	1-163-093-00	CERAMIC CHIP	10PF 5% 50V
				C386	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
				C387	1-163-113-00	CERAMIC CHIP	68PF 5% 50V
				C388	1-164-232-11	CERAMIC CHIP	0.01MF 50V
				C389	1-163-097-00	CERAMIC CHIP	15PF 5% 50V
				C390	1-124-907-11	ELECT	10MF 20% 50V
				C391	1-124-907-11	ELECT	10MF 20% 50V
				C392	1-124-907-11	ELECT	10MF 20% 50V
				C393	1-126-101-11	ELECT	100MF 20% 16V
				C394	1-126-101-11	ELECT	100MF 20% 16V
				C395	1-126-101-11	ELECT	100MF 20% 16V
				C396	1-126-101-11	ELECT	100MF 20% 16V
				C397	1-137-028-11	FILM	1MF 10% 63V
				C398	1-124-907-11	ELECT	10MF 20% 50V
				C399	1-163-038-00	CERAMIC CHIP	0.1MF 25V
				C1301	1-163-105-00	CERAMIC CHIP	33PF 5% 50V
				C1302	1-163-235-11	CERAMIC CHIP	22PF 5% 50V
				C1303	1-163-038-00	CERAMIC CHIP	0.1MF 25V

The components identified by shading and mark are critical for safety.
Replace only with part number specified.

B1

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C1304	1-124-907-11	ELECT	10MF	20%	50V		
C1305	1-126-101-11	ELECT	100MF	20%	16V		
C1306	1-163-038-00	CERAMIC CHIP	0.1MF		25V		
C1307	1-163-038-00	CERAMIC CHIP	0.1MF		25V		
C1308	1-163-038-00	CERAMIC CHIP	0.1MF		25V		
C1309	1-164-232-11	CERAMIC CHIP	0.01MF		50V		
C1310	1-164-232-11	CERAMIC CHIP	0.01MF		50V		
C1311	1-163-038-00	CERAMIC CHIP	0.1MF		25V		
C1312	1-163-038-00	CERAMIC CHIP	0.1MF		25V		
C1313	1-163-038-00	CERAMIC CHIP	0.1MF		25V		
C1314	1-163-109-00	CERAMIC CHIP	47PF	5%	50V		
C1315	1-163-038-00	CERAMIC CHIP	0.1MF		25V		
C1316	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V		
C1317	1-163-038-00	CERAMIC CHIP	0.1MF		25V		
C1318	1-163-038-00	CERAMIC CHIP	0.1MF		25V		
C1319	1-164-232-11	CERAMIC CHIP	0.01MF		50V		
C1320	1-164-232-11	CERAMIC CHIP	0.01MF		50V		
C1321	1-164-232-11	CERAMIC CHIP	0.01MF		50V		
C1322	1-164-232-11	CERAMIC CHIP	0.01MF		50V		
C1323	1-164-232-11	CERAMIC CHIP	0.01MF		50V		
C1324	1-163-033-00	CERAMIC CHIP	0.022MF		50V		
C1325	1-163-038-00	CERAMIC CHIP	0.1MF		25V		
C1326	1-164-232-11	CERAMIC CHIP	0.01MF		50V		
C1327	1-163-115-00	CERAMIC CHIP	82PF	5%	50V		
C1328	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V		
C1329	1-163-035-00	CERAMIC CHIP	0.047MF		50V		
C1330	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V		
C1331	1-164-187-11	CERAMIC CHIP	390PF	2%	50V		
C1333	1-126-101-11	ELECT	100MF	20%	16V		
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CT302	1-141-418-11	CAP, ADJ					
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D304	8-719-989-26	DIODE	DAN212K				
D305	8-719-989-26	DIODE	DAN212K				
D307	8-719-106-62	DIODE	RD11M-B2				
D308	8-719-989-26	DIODE	DAN212K				
D309	8-719-989-26	DIODE	DAN212K				
D310	8-719-106-62	DIODE	RD11M-B2				
D311	8-719-106-62	DIODE	RD11M-B2				
D312	8-719-106-62	DIODE	RD11M-B2				
D314	8-719-800-76	DIODE	ISS226				
D318	8-719-800-76	DIODE	ISS226				
D319	8-719-800-76	DIODE	ISS226				
D320	8-719-800-76	DIODE	ISS226				
D321	8-719-105-91	DIODE	RD5.6M-B2				
D322	8-719-400-18	DIODE	MA152WK				
D330	8-719-989-26	DIODE	DAN212K				
D331	8-719-914-44	DIODE	DAP202K				
D333	8-719-951-22	DIODE	IMN10				
D336	8-719-400-18	DIODE	MA152WK				
D340	8-719-800-76	DIODE	ISS226				
D341	8-719-989-26	DIODE	DAN212K				
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FL302	1-236-620-11	FILTER, LOW PASS					
FL303	1-236-620-11	FILTER, LOW PASS					
FL305	1-236-164-11	ENCAPSULATED COMPONENT					
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IC302	8-759-980-60	IC TDA8442N3					
IC303	8-759-510-48	IC TDA4660T					
IC304	8-759-510-47	IC TDA4650WP					
IC305	8-759-144-84	IC UPC24M05HF					
IC306	8-759-510-50	IC HCF4052BM					
IC308	8-752-006-12	IC CX20061					
IC310	8-752-337-07	IC CXD2011Q					
IC311	8-759-996-49	IC MB40968PF					
IC312	8-752-338-45	IC CXK1202Q					
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IC315	8-752-334-55	IC CXD1175AM					
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L303	1-404-554-11	COIL					
L304	1-408-405-00	INDUCTOR	4.7UH				
L305	1-408-402-00	INDUCTOR	2.7UH				
L306	1-408-405-00	INDUCTOR	4.7UH				
L308	1-404-495-00	COIL					
L309	1-408-415-00	INDUCTOR	33UH				
L310	1-408-419-00	INDUCTOR	68UH				
L312	1-404-495-00	COIL					
L313	1-404-554-11	COIL					
L314	1-408-409-00	INDUCTOR	10UH				
L320	1-408-405-00	INDUCTOR	4.7UH				
L321	1-408-405-00	INDUCTOR	4.7UH				
L323	1-408-398-00	INDUCTOR	1.2UH				
L325	1-408-405-00	INDUCTOR	4.7UH				
L326	1-408-421-00	INDUCTOR	100UH				
L327	1-408-402-00	INDUCTOR	2.7UH				
L1301	1-408-425-00	INDUCTOR	220UH				
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Q301	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q302	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q303	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q304	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q305	8-729-901-06	TRANSISTOR DTA144EK					
Q306	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q307	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q308	8-729-901-00	TRANSISTOR DTC124EK					
Q310	8-729-901-00	TRANSISTOR DTC124EK					
Q311	8-729-901-00	TRANSISTOR DTC124EK					
Q320	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q321	8-729-216-22	TRANSISTOR 2SA1162-G					
Q322	8-729-216-22	TRANSISTOR 2SA1162-G					
Q323	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q324	8-729-120-28	TRANSISTOR 2SC1623-L5L6					

B1

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q327	8-729-216-22	TRANSISTOR 2SA1162-G		R311	1-216-025-00	METAL GLAZE	100 5% 1/10W
Q328	8-729-216-22	TRANSISTOR 2SA1162-G		R312	1-216-019-00	METAL GLAZE	56 5% 1/10W
Q329	8-729-216-22	TRANSISTOR 2SA1162-G		R313	1-216-019-00	METAL GLAZE	56 5% 1/10W
Q330	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R314	1-216-019-00	METAL GLAZE	56 5% 1/10W
Q331	8-729-216-22	TRANSISTOR 2SA1162-G		R316	1-216-081-00	METAL GLAZE	22K 5% 1/10W
Q332	8-729-216-22	TRANSISTOR 2SA1162-G		R317	1-216-033-00	METAL GLAZE	220 5% 1/10W
Q333	8-729-901-00	TRANSISTOR DTC124EK		R318	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q334	8-729-901-00	TRANSISTOR DTC124EK		R319	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q335	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R320	1-216-198-00	METAL GLAZE	1K 5% 1/8W
Q336	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R321	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q337	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R322	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q338	8-729-216-22	TRANSISTOR 2SA1162-G		R323	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
Q339	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R324	1-216-049-00	METAL GLAZE	1K 5% 1/10W
Q340	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R325	1-216-033-00	METAL GLAZE	220 5% 1/10W
Q341	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R326	1-216-009-00	METAL GLAZE	22 5% 1/10W
Q342	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R327	1-216-009-00	METAL GLAZE	22 5% 1/10W
Q343	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R328	1-216-009-00	METAL GLAZE	22 5% 1/10W
Q344	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R329	1-216-031-00	METAL GLAZE	180 5% 1/10W
Q345	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R330	1-216-031-00	METAL GLAZE	180 5% 1/10W
Q346	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R331	1-216-031-00	METAL GLAZE	180 5% 1/10W
Q347	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R332	1-216-182-00	METAL GLAZE	220 5% 1/8W
Q348	8-729-901-00	TRANSISTOR DTC124EK		R333	1-216-033-00	METAL GLAZE	220 5% 1/10W
Q350	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R335	1-216-101-00	METAL GLAZE	150K 5% 1/10W
Q353	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R336	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q354	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R337	1-216-093-00	METAL GLAZE	68K 5% 1/10W
Q355	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R338	1-216-085-00	METAL GLAZE	33K 5% 1/10W
Q356	8-729-216-22	TRANSISTOR 2SA1162-G		R339	1-216-083-00	METAL GLAZE	27K 5% 1/10W
Q357	8-729-216-22	TRANSISTOR 2SA1162-G		R340	1-216-103-00	METAL GLAZE	180K 5% 1/10W
Q358	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R341	1-216-115-00	METAL GLAZE	560K 5% 1/10W
Q359	8-729-216-22	TRANSISTOR 2SA1162-G		R342	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
Q360	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R343	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
Q361	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R344	1-216-089-00	METAL GLAZE	47K 5% 1/10W
Q362	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R345	1-216-097-00	METAL GLAZE	100K 5% 1/10W
Q363	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R346	1-216-033-00	METAL GLAZE	220 5% 1/10W
Q364	8-729-216-22	TRANSISTOR 2SA1162-G		R347	1-216-121-00	METAL GLAZE	1M 5% 1/10W
Q365	8-729-216-22	TRANSISTOR 2SA1162-G		R348	1-216-001-00	METAL GLAZE	10 5% 1/10W
Q366	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R349	1-216-001-00	METAL GLAZE	10 5% 1/10W
Q367	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R350	1-216-184-00	METAL GLAZE	270 5% 1/8W
Q368	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R351	1-216-184-00	METAL GLAZE	270 5% 1/8W
Q369	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R352	1-216-070-00	METAL GLAZE	7.5K 5% 1/10W
Q370	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R353	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q371	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R354	1-216-037-00	METAL GLAZE	330 5% 1/10W
Q372	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R355	1-216-033-00	METAL GLAZE	220 5% 1/10W
Q373	8-729-901-00	TRANSISTOR DTC124EK		R357	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
Q1301	8-729-901-00	TRANSISTOR DTC124EK		R358	1-216-037-00	METAL GLAZE	330 5% 1/10W
Q1302	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R359	1-216-041-00	METAL GLAZE	470 5% 1/10W
Q1303	8-729-901-00	TRANSISTOR DTC124EK		R361	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
<RESISTOR>							
JR302	1-216-295-00	METAL GLAZE	0 5% 1/10W	R362	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
JR304	1-216-296-00	METAL GLAZE	0 5% 1/8W	R363	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
JR305	1-216-295-00	METAL GLAZE	0 5% 1/10W	R364	1-216-033-00	METAL GLAZE	220 5% 1/10W
JR391	1-216-295-00	METAL GLAZE	0 5% 1/10W	R365	1-216-035-00	METAL GLAZE	270 5% 1/10W
R301	1-216-033-00	METAL GLAZE	220 5% 1/10W	R366	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R302	1-216-033-00	METAL GLAZE	220 5% 1/10W	R367	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R303	1-216-033-00	METAL GLAZE	220 5% 1/10W	R368	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R304	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R369	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R305	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R370	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R306	1-216-035-00	METAL GLAZE	270 5% 1/10W	R371	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R307	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R372	1-216-033-00	METAL GLAZE	220 5% 1/10W
R309	1-216-025-00	METAL GLAZE	100 5% 1/10W	R373	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R310	1-216-025-00	METAL GLAZE	100 5% 1/10W	R374	1-216-033-00	METAL GLAZE	220 5% 1/10W
				R375	1-216-043-00	METAL GLAZE	560 5% 1/10W
				R376	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
				R377	1-216-081-00	METAL GLAZE	22K 5% 1/10W

B1

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R378	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1348	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R379	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1349	1-216-075-00	METAL GLAZE	12K 5% 1/10W
R380	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1350	1-216-039-00	METAL GLAZE	390 5% 1/10W
R381	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1351	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R382	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R1352	1-216-041-00	METAL GLAZE	470 5% 1/10W
R383	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1353	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R384	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R1354	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R385	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1355	1-216-045-00	METAL GLAZE	680 5% 1/10W
R386	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R1356	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R387	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1357	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R388	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R1358	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R389	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1359	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R390	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1360	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
R391	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1361	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R392	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1362	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R393	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1363	1-216-039-00	METAL GLAZE	390 5% 1/10W
R394	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1364	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R395	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1365	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R396	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1366	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R397	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R1367	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R398	1-216-035-00	METAL GLAZE	270 5% 1/10W	R1368	1-216-033-00	METAL GLAZE	220 5% 1/10W
R399	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1369	1-216-031-00	METAL GLAZE	180 5% 1/10W
R1301	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1370	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R1302	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1371	1-216-031-00	METAL GLAZE	180 5% 1/10W
R1303	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1372	1-216-047-00	METAL GLAZE	820 5% 1/10W
R1305	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R1373	1-216-035-00	METAL GLAZE	270 5% 1/10W
R1308	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1374	1-216-202-00	METAL GLAZE	1.5K 5% 1/8W
R1309	1-216-023-00	METAL GLAZE	82 5% 1/10W	R1375	1-216-208-00	METAL GLAZE	2.7K 5% 1/8W
R1310	1-216-047-00	METAL GLAZE	820 5% 1/10W	R1376	1-216-748-11	METAL GLAZE	39K 5% 1/10W
R1311	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1377	1-216-748-11	METAL GLAZE	39K 5% 1/10W
R1312	1-216-045-00	METAL GLAZE	680 5% 1/10W	R1378	1-216-748-11	METAL GLAZE	39K 5% 1/10W
R1313	1-216-043-00	METAL GLAZE	560 5% 1/10W	R1379	1-216-748-11	METAL GLAZE	39K 5% 1/10W
R1314	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1380	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R1315	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1381	1-216-033-00	METAL GLAZE	220 5% 1/10W
R1316	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1382	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R1319	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1383	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R1320	1-216-641-11	METAL CHIP	390 0.50% 1/10W	R1384	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R1321	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1385	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R1322	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R1386	1-216-047-00	METAL GLAZE	820 5% 1/10W
R1323	1-216-643-11	METAL CHIP	470 0.50% 1/10W	R1387	1-216-031-00	METAL GLAZE	180 5% 1/10W
R1324	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1388	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1325	1-216-037-00	METAL GLAZE	330 5% 1/10W	R1389	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1326	1-216-045-00	METAL GLAZE	680 5% 1/10W	R1390	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R1327	1-216-029-00	METAL GLAZE	150 5% 1/10W	R1391	1-216-208-00	METAL GLAZE	2.7K 5% 1/8W
R1328	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1392	1-216-047-00	METAL GLAZE	820 5% 1/10W
R1329	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1393	1-216-047-00	METAL GLAZE	820 5% 1/10W
R1330	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1394	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1331	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1395	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1332	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1396	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1333	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1397	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1334	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1398	1-216-001-00	METAL GLAZE	10 5% 1/10W
R1335	1-216-043-00	METAL GLAZE	560 5% 1/10W	R1399	1-216-029-00	METAL GLAZE	150 5% 1/10W
R1336	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W				
R1337	1-216-657-11	METAL CHIP	1.8K 0.50% 1/10W				
R1338	1-216-085-00	METAL GLAZE	33K 5% 1/10W				
R1339	1-216-039-00	METAL GLAZE	390 5% 1/10W				
R1340	1-216-025-00	METAL GLAZE	100 5% 1/10W				
R1341	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W				
R1342	1-216-025-00	METAL GLAZE	100 5% 1/10W				
R1343	1-216-043-00	METAL GLAZE	560 5% 1/10W				
R1344	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W				
R1345	1-216-077-00	METAL GLAZE	15K 5% 1/10W				
R1346	1-216-025-00	METAL GLAZE	100 5% 1/10W				
R1347	1-216-025-00	METAL GLAZE	100 5% 1/10W				

<VARIABLE RESISTOR>

RV301 1-238-012-11 RES, ADJ, CARBON 1K

<CRYSTAL>

X301 1-567-307-11 OSCILLATOR, CRYSTAL

X302 1-567-131-00 OSCILLATOR, CRYSTAL

The components identified by shading and mark **A** are critical for safety.
Replace only with part number specified.

F **A** **C**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK			
<CONNECTOR>										
	*1-638-390-11	F BOARD	*****	Q113	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
	*4-341-752-01	EYELET		Q114	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
	R61	*1-580-690-11	PIN, CONNECTOR (PC BOARD) 4P	Q115	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
	R62	*1-580-690-11	PIN, CONNECTOR (PC BOARD) 4P	Q116	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
				Q125	8-729-900-89	TRANSISTOR DTC144ES				
				Q126	8-729-901-06	TRANSISTOR DTA144EK				
				Q181	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
<FUSE>										
	F1601A	1-532-504-31	FUSE 4A/250V							
		1-533-230-11	HOLDER, FUSE; F1601							
<SWITCH>										
	S1701A	1-571-433-12	SWITCH, PUSH (AC POWER)							

	A-1632-022-A	A BOARD, COMPLETE	*****	JR230	1-216-295-00	METAL GLAZE 0	5%	1/10W		
				JR252	1-216-296-00	METAL GLAZE 0	5%	1/8W		
				JR253	1-216-296-00	METAL GLAZE 0	5%	1/8W		
				JR255	1-216-296-00	METAL GLAZE 0	5%	1/8W		
				JR256	1-216-296-00	METAL GLAZE 0	5%	1/8W		
				JR257	1-216-296-00	METAL GLAZE 0	5%	1/8W		
				JR258	1-216-296-00	METAL GLAZE 0	5%	1/8W		
				R101	1-216-025-00	METAL GLAZE 100	5%	1/10W		
				R105	1-216-079-00	METAL GLAZE 18K	5%	1/10W		
				R107	1-216-081-00	METAL GLAZE 22K	5%	1/10W		
				R108	1-216-079-00	METAL GLAZE 18K	5%	1/10W		
				R110	1-249-429-11	CARBON 10K	5%	1/4W		
				R111	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W		
				R116	1-216-023-00	METAL GLAZE 82	5%	1/10W		
				R118	1-216-085-00	METAL GLAZE 33K	5%	1/10W		
				R128	1-216-027-00	METAL GLAZE 120	5%	1/10W		
				R129	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W		
				R130	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W		
				R157	1-216-049-00	METAL GLAZE 1K	5%	1/10W		
				R158	1-249-409-11	CARBON 220	5%	1/4W		
				R159	1-249-409-11	CARBON 220	5%	1/4W		
				R161	1-216-089-00	METAL GLAZE 47K	5%	1/10W		
				R162	1-216-095-00	METAL GLAZE 82K	5%	1/10W		
				R163	1-216-095-00	METAL GLAZE 82K	5%	1/10W		
				R164	1-216-075-00	METAL GLAZE 12K	5%	1/10W		
				R165	1-216-075-00	METAL GLAZE 12K	5%	1/10W		
				R167	1-216-059-00	METAL GLAZE 2.7K	5%	1/10W		
				R168	1-216-089-00	METAL GLAZE 47K	5%	1/10W		
				R169	1-216-059-00	METAL GLAZE 2.7K	5%	1/10W		
				R181	1-216-049-00	METAL GLAZE 1K	5%	1/10W		
				R182	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W		
				R193	1-216-073-00	METAL GLAZE 10K	5%	1/10W		
				R194	1-216-017-00	METAL GLAZE 47	5%	1/10W		
				R195	1-216-017-00	METAL GLAZE 47	5%	1/10W		
				R196	1-216-113-00	METAL GLAZE 470K	5%	1/10W		
<CAPACITOR>										
	C101	1-126-233-11	ELECT	22MF	20%	50V				
	C102	1-126-103-11	ELECT	470MF	20%	16V				
	C104	1-124-910-11	ELECT	47MF	20%	50V				
	C106	1-126-233-11	ELECT	22MF	20%	50V				
	C108	1-136-165-00	FILM	0.1MF	5%	50V				
	C109	1-163-133-00	CERAMIC CHIP	470PF	5%	50V				
	C111	1-124-925-11	ELECT	2.2MF	20%	50V				
	C115	1-124-925-11	ELECT	2.2MF	20%	50V				
	C127	1-124-122-11	ELECT	100MF	20%	50V				
	C128	1-124-910-11	ELECT	47MF	20%	50V				
	C129	1-124-910-11	ELECT	47MF	20%	50V				
	C138	1-136-165-00	FILM	0.1MF	5%	50V				
	C171	1-163-005-11	CERAMIC CHIP	470PF	10%	50V				
	C172	1-163-005-11	CERAMIC CHIP	470PF	10%	50V				
	C177	1-102-074-00	CERAMIC	0.001MF	10%	50V				
	C181	1-101-004-00	CERAMIC	0.01MF		50V				
<IC>										
	IC103	8-759-979-62	IC	PCF8574						
<COIL>										
	L100	1-410-683-31	INDUCTOR	560UH						
	L101	1-408-225-00	INDUCTOR	3.3UH						
	L102	1-408-413-00	INDUCTOR	22UH						
	L107	1-408-397-00	INDUCTOR	1UH						
<TRANSISTOR>										
	Q113	8-729-120-28	TRANSISTOR	2SC1623-L5L6						
	Q114	8-729-120-28	TRANSISTOR	2SC1623-L5L6						
	Q115	8-729-120-28	TRANSISTOR	2SC1623-L5L6						
	Q116	8-729-120-28	TRANSISTOR	2SC1623-L5L6						
	Q125	8-729-900-89	TRANSISTOR	DTC144ES						
	Q126	8-729-901-06	TRANSISTOR	DTA144EK						
	Q181	8-729-120-28	TRANSISTOR	2SC1623-L5L6						
<RESISTOR>										
	JR230	1-216-295-00	METAL GLAZE	0	5%	1/10W				
	JR252	1-216-296-00	METAL GLAZE	0	5%	1/8W				
	JR253	1-216-296-00	METAL GLAZE	0	5%	1/8W				
	JR255	1-216-296-00	METAL GLAZE	0	5%	1/8W				
	JR256	1-216-296-00	METAL GLAZE	0	5%	1/8W				
	JR257	1-216-296-00	METAL GLAZE	0	5%	1/8W				
	JR258	1-216-296-00	METAL GLAZE	0	5%	1/8W				
	R101	1-216-025-00	METAL GLAZE	100	5%	1/10W				
	R105	1-216-079-00	METAL GLAZE	18K	5%	1/10W				
	R107	1-216-081-00	METAL GLAZE	22K	5%	1/10W				
	R108	1-216-079-00	METAL GLAZE	18K	5%	1/10W				
	R110	1-249-429-11	CARBON	10K	5%	1/4W				
	R111	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W				
	R116	1-216-023-00	METAL GLAZE	82	5%	1/10W				
	R118	1-216-085-00	METAL GLAZE	33K	5%	1/10W				
	R128	1-216-027-00	METAL GLAZE	120	5%	1/10W				
	R129	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W				
	R130	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W				
	R157	1-216-049-00	METAL GLAZE	1K	5%	1/10W				
	R158	1-249-409-11	CARBON	220	5%	1/4W				
	R159	1-249-409-11	CARBON	220	5%	1/4W				
	R161	1-216-089-00	METAL GLAZE	47K	5%	1/10W				
	R162	1-216-095-00	METAL GLAZE	82K	5%	1/10W				
	R163	1-216-095-00	METAL GLAZE	82K	5%	1/10W				
	R164	1-216-075-00	METAL GLAZE	12K	5%	1/10W				
	R165	1-216-075-00	METAL GLAZE	12K	5%	1/10W				
	R167	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W				
	R168	1-216-089-00	METAL GLAZE	47K	5%	1/10W				
	R169	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W				
	R181	1-216-049-00	METAL GLAZE	1K	5%	1/10W				
	R182	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W				
	R193	1-216-073-00	METAL GLAZE	10K	5%	1/10W				
	R194	1-216-017-00	METAL GLAZE	47	5%	1/10W				
	R195	1-216-017-00	METAL GLAZE	47	5%	1/10W				
	R196	1-216-113-00	METAL GLAZE	470K	5%	1/10W				
<TUNER>										
	TU101A	1-465-301-11	TUNER, ET (UV-816(PLL))							
<IF BLOCK>										
	VIF101	1-466-154-11	IF BLOCK (IFG-389S)							

		*A-1638-013-A	C BOARD, COMPLETE							

		*4-379-160-01	COVER (REAR LID), CV							
		*4-379-167-01	COVER (MAIN), CV							

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The components identified by shading and mark **A** are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
<CONNECTOR>								
C71	*1-506-371-00	PIN, CONNECTOR 2P		R708	1-249-401-11	CARBON	47 5% 1/4W	
C72	*1-568-881-51	PIN, CONNECTOR 6P		R709	1-202-844-00	SOLID	330K 10% 1/2W	
C81	*1-568-878-51	PIN, CONNECTOR 3P		R710	1-215-465-00	METAL	68K 1% 1/4W	
C82	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		R711	1-249-426-11	CARBON	5.6K 5% 1/4W	
				R712	1-249-417-11	CARBON	1K 5% 1/4W	
				R713	1-215-471-00	METAL	120K 1% 1/4W	
<CAPACITOR>								
C703	1-102-820-00	CERAMIC	330PF 5% 50V	R714	1-216-486-00	METAL OXIDE	8.2K 5% 3W F	
C704	1-102-116-00	CERAMIC	680PF 10% 50V	R715	1-202-824-00	SOLID	3.3K 10% 1/2W	
C705	1-102-980-00	CERAMIC	270PF 5% 50V	R716	1-249-409-11	CARBON	220 5% 1/4W	
C706	1-102-116-00	CERAMIC	680PF 10% 50V	R717	1-249-415-11	CARBON	680 5% 1/4W	
C707	1-162-116-00	CERAMIC	680PF 10% 2KV	R718	1-202-814-11	SOLID	33K 10% 1/2W	
C708	1-162-114-00	CERAMIC	0.0047MF 2KV	R719	1-249-401-11	CARBON	47 5% 1/4W	
C709	1-102-116-00	CERAMIC	680PF 10% 50V	R720	1-249-423-11	CARBON	3.3K 5% 1/4W	
C710	1-123-947-00	ELECT	10MF 20% 250V	R721	1-202-842-11	SOLID	220K 10% 1/2W	
C711	1-101-880-00	CERAMIC	47PF 5% 50V	R722	1-202-848-00	SOLID	680K 10% 1/2W	
C712	1-102-820-00	CERAMIC	330PF 5% 50V	R723	1-249-417-11	CARBON	1K 5% 1/4W	
C714	1-124-360-00	ELECT	1000MF 20% 16V	R724	1-202-846-00	SOLID	470K 10% 1/2W	
C716	1-162-622-11	CERAMIC	330PF 10% 400V	R725	1-202-838-00	SOLID	100K 10% 1/2W	
C717	1-102-114-00	CERAMIC	470PF 10% 50V	R726	1-202-824-00	SOLID	3.3K 10% 1/2W	
C718	1-102-114-00	CERAMIC	470PF 10% 50V	R727	1-249-409-11	CARBON	220 5% 1/4W	
C719	1-102-114-00	CERAMIC	470PF 10% 50V	R728	1-216-347-11	METAL OXIDE	0.68 5% 1W F	
<DIODE>								
D701	8-719-110-14	DIODE RD9.1ES-B3		R729	1-249-416-11	CARBON	820 5% 1/4W	
D702	8-719-911-19	DIODE ISS119		R730	1-249-401-11	CARBON	47 5% 1/4W	
D703	8-719-911-19	DIODE ISS119		R731	1-249-423-11	CARBON	3.3K 5% 1/4W	
D704	8-719-911-19	DIODE ISS119		R732	1-249-415-11	CARBON	680 5% 1/4W	
D705	8-719-911-19	DIODE ISS119		R733	1-249-415-11	CARBON	680 5% 1/4W	
D706	8-719-911-19	DIODE ISS119		R734	1-249-405-11	CARBON	100 5% 1/4W	
D707	8-719-911-19	DIODE ISS119		R735	1-215-493-00	METAL	1M 1% 1/4W	
D708	8-719-911-19	DIODE ISS119		R736	1-216-486-00	METAL OXIDE	8.2K 5% 3W F	
D709	8-719-911-19	DIODE ISS119		R737	1-215-485-00	METAL	470K 1% 1/4W	
D710	8-719-911-19	DIODE ISS119		R739	1-249-417-11	CARBON	1K 5% 1/4W	
<VARIABLE RESISTOR>								
D711	8-719-300-33	DIODE RU-3AM		RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M		
D713	8-719-911-19	DIODE ISS119		RV702A	1-230-619-11	RES, ADJ, METAL GLAZE 110M		
				RV703	1-237-749-11	RES, ADJ, CARBON 2200		
				RV704	1-237-749-11	RES, ADJ, CARBON 2200		

<JACK>								
J701	1-526-990-11	SOCKET, PICTURE TUBE		A-1642-032-A	D BOARD, COMPLETE			

<COIL>								
L704	1-410-878-11	INDUCTOR 33UH		4-200-001-01	HOLDER, IC			
				4-201-023-01	SPACER, INSULATING			
				*4-341-751-01	EYELET			
				*4-341-752-01	EYELET			
				*4-368-683-01	SPRING			
<TRANSISTOR>								
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE		<CAPACITOR>				
Q703	8-729-906-70	TRANSISTOR BF871		C002	1-163-205-00	CERAMIC CHIP 0.001MF	5% 50V	
Q704	8-729-200-17	TRANSISTOR 2SA1091-0		C003	1-124-925-11	ELECT 2.2MF	20% 50V	
Q705	8-729-119-78	TRANSISTOR 2SC2785-HFE		C004	1-124-120-11	ELECT 220MF	20% 16V	
Q706	8-729-906-70	TRANSISTOR BF871		C005	1-124-903-11	ELECT 1MF	20% 50V	
Q707	8-729-200-17	TRANSISTOR 2SA1091-0		C008	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	
Q708	8-729-119-78	TRANSISTOR 2SC2785-HFE		C009	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	
Q709	8-729-906-70	TRANSISTOR BF871		C010	1-124-120-11	ELECT 220MF	20% 16V	
Q710	8-729-200-17	TRANSISTOR 2SA1091-0		C011	1-164-232-11	CERAMIC CHIP 0.01MF	50V	
<RESISTOR>								
R704	1-216-486-00	METAL OXIDE	8.2K 5% 3W F	C013	1-137-098-11	FILM 0.1MF	10% 100V	
R705	1-202-824-00	SOLID	3.3K 10% 1/2W	C014	1-137-098-11	FILM 0.1MF	10% 100V	
R706	1-249-409-11	CARBON	220 5% 1/4W	C015	1-124-902-00	ELECT 0.47MF	20% 50V	
R707	1-249-412-11	CARBON	390 5% 1/4W	C016	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	
				C017	1-137-098-11	FILM 0.1MF	10% 100V	
				C018	1-163-127-00	CERAMIC CHIP 270PF	5% 50V	

The components identified by shading and mark  are critical for safety.
Replace only with part number specified.

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The components identified by

shading and
cool for safety.

Replace only with part number
specified.

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q003	8-729-216-22	TRANSISTOR 2SA1162-G		R032	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q004	8-729-216-22	TRANSISTOR 2SA1162-G		R033	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q005	8-729-901-01	TRANSISTOR DTC144EK		R034	1-216-077-00	METAL GLAZE	15K 5% 1/10W
Q006	8-729-901-01	TRANSISTOR DTC144EK		R035	1-216-081-00	METAL GLAZE	22K 5% 1/10W
Q007	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R036	1-216-083-00	METAL GLAZE	27K 5% 1/10W
Q008	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R037	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
Q009	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R038	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
Q010	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R039	1-216-081-00	METAL GLAZE	22K 5% 1/10W
Q251	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R040	1-216-077-00	METAL GLAZE	15K 5% 1/10W
Q261	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R041	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q271	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R042	1-216-049-00	METAL GLAZE	1K 5% 1/10W
Q502	8-729-216-22	TRANSISTOR 2SA1162-G		R043	1-216-041-00	METAL GLAZE	470 5% 1/10W
Q505	8-729-140-96	TRANSISTOR 2SD774-34		R044	1-216-097-00	METAL GLAZE	100K 5% 1/10W
Q506	8-729-140-97	TRANSISTOR 2SB734-34		R045	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
Q507	8-729-216-22	TRANSISTOR 2SA1162-G		R046	1-216-095-00	METAL GLAZE	82K 5% 1/10W
Q598	8-729-216-22	TRANSISTOR 2SA1162-G		R047	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q601	8-729-122-03	TRANSISTOR 2SA1220A-P		R048	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q602	8-729-209-02	TRANSISTOR 2SD1548-LB		R049	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q603	8-729-122-03	TRANSISTOR 2SA1220A-P		R050	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
Q604	8-729-216-22	TRANSISTOR 2SA1162-G		R051	1-216-041-00	METAL GLAZE	470 5% 1/10W
Q605	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R052	1-216-049-00	METAL GLAZE	1K 5% 1/10W
Q606	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R053	1-216-049-00	METAL GLAZE	1K 5% 1/10W
Q607	8-729-920-92	TRANSISTOR 2SD2096-EF		R054	1-216-049-00	METAL GLAZE	1K 5% 1/10W
Q608	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R055	1-216-037-00	METAL GLAZE	330 5% 1/10W
Q609	8-729-320-62	TRANSISTOR 2SD789-34		R056	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q801	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R057	1-216-025-00	METAL GLAZE	100 5% 1/10W
Q804	8-729-304-50	TRANSISTOR 2SD1941-06		R058	1-216-049-00	METAL GLAZE	1K 5% 1/10W
Q805	8-729-119-80	TRANSISTOR 2SC2688-LK		R059	1-216-049-00	METAL GLAZE	1K 5% 1/10W
<RESISTOR>							
JR1	1-216-296-00	METAL GLAZE 0 5% 1/8W		R060	1-216-049-00	METAL GLAZE	1K 5% 1/10W
JR3	1-216-296-00	METAL GLAZE 0 5% 1/8W		R061	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
JR4	1-216-295-00	METAL GLAZE 0 5% 1/10W		R062	1-216-049-00	METAL GLAZE	1K 5% 1/10W
JR7	1-216-296-00	METAL GLAZE 0 5% 1/8W		R063	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R001	1-216-041-00	METAL GLAZE 470 5% 1/10W		R064	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R002	1-216-041-00	METAL GLAZE 470 5% 1/10W		R065	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R003	1-216-198-00	METAL GLAZE 1K 5% 1/8W		R066	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R004	1-216-049-00	METAL GLAZE 1K 5% 1/10W		R067	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R005	1-216-081-00	METAL GLAZE 22K 5% 1/10W		R068	1-216-174-00	METAL GLAZE	100 5% 1/8W
R006	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R069	1-216-174-00	METAL GLAZE	100 5% 1/8W
R007	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W		R070	1-216-198-00	METAL GLAZE	1K 5% 1/8W
R008	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R071	1-216-198-00	METAL GLAZE	1K 5% 1/8W
R009	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R072	1-216-222-00	METAL GLAZE	10K 5% 1/8W
R010	1-216-041-00	METAL GLAZE 470 5% 1/10W		R073	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R012	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R075	1-216-041-00	METAL GLAZE	470 5% 1/10W
R013	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R076	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R014	1-216-085-00	METAL GLAZE 33K 5% 1/10W		R078	1-216-198-00	METAL GLAZE	1K 5% 1/8W
R015	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W		R079	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R016	1-216-085-00	METAL GLAZE 33K 5% 1/10W		R080	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R017	1-216-748-11	METAL GLAZE 39K 5% 1/10W		R081	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R018	1-216-095-00	METAL GLAZE 82K 5% 1/10W		R083	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R019	1-216-025-00	METAL GLAZE 100 5% 1/10W		R084	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R020	1-216-025-00	METAL GLAZE 100 5% 1/10W		R085	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R021	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W		R086	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R022	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W		R087	1-216-035-00	METAL GLAZE	270 5% 1/10W
R024	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R088	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R025	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R093	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R026	1-216-182-00	METAL GLAZE 220 5% 1/8W		R094	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R027	1-216-025-00	METAL GLAZE 100 5% 1/10W		R095	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R028	1-216-025-00	METAL GLAZE 100 5% 1/10W		R096	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R029	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R098	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R030	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R251	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R031	1-216-081-00	METAL GLAZE 22K 5% 1/10W		R252	1-216-039-00	METAL GLAZE	390 5% 1/10W
				R253	1-216-073-00	METAL GLAZE	10K 5% 1/10W
				R254	1-216-357-00	METAL OXIDE	4.7 5% 1W R

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R255	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R553	1-215-869-11	METAL OXIDE	1K 5% 1W
R256	1-216-115-00	METAL GLAZE	560K 5% 1/10W	R554	1-216-037-00	METAL GLAZE	330 5% 1/10W
R257	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R555	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W
R258	1-215-869-11	METAL OXIDE	1K 5% 1W F	R556	1-216-025-00	METAL GLAZE	100 5% 1/10W
R259	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R557	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R261	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R558	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R262	1-216-039-00	METAL GLAZE	390 5% 1/10W	R559	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R263	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R560	1-216-037-00	METAL GLAZE	330 5% 1/10W
R264	1-216-357-00	METAL OXIDE	4.7 5% 1W F	R561	1-216-107-00	METAL GLAZE	270K 5% 1/10W
R265	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R570	1-216-045-00	METAL GLAZE	680 5% 1/10W
R266	1-216-115-00	METAL GLAZE	560K 5% 1/10W	R591	1-216-047-00	METAL GLAZE	820 5% 1/10W
R267	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R592	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R268	1-215-869-11	METAL OXIDE	1K 5% 1W F	R593	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R269	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R594	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R270	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R597	1-216-041-00	METAL GLAZE	470 5% 1/10W
R271	1-216-045-00	METAL GLAZE	680 5% 1/10W	R598	1-215-900-11	METAL OXIDE	22K 5% 2W F
R272	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R600	1-249-381-11	CARBON	1 5% 1/4W
R273	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R601	1-216-353-00	METAL OXIDE	2.2 5% 1W F
R274	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R603	1-216-469-11	METAL OXIDE	12 5% 3W F
R500	1-216-115-00	METAL GLAZE	560K 5% 1/10W	R604	1-216-025-00	METAL GLAZE	100 5% 1/10W
R501	1-216-041-00	METAL GLAZE	470 5% 1/10W	R605	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R502	1-216-033-00	METAL GLAZE	220 5% 1/10W	R606	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
R503	1-216-035-00	METAL GLAZE	270 5% 1/10W	R607	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R504	1-249-420-11	CARBON	1.8K 5% 1/4W	R608	1-216-488-11	METAL OXIDE	18K 5% 3W F
R505	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R609	1-216-007-00	METAL GLAZE	18 5% 1/10W
R506	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R610	1-244-941-00	CARBON	680K 5% 1/2W
R509	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R611	1-216-015-00	METAL GLAZE	39 5% 1/10W
R510	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R612	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R514	1-216-033-00	METAL GLAZE	220 5% 1/10W	R613	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R515	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R614	1-205-758-11	WIREWOUND	100 10% 10W F
R517	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R616	1-216-099-00	METAL GLAZE	120K 5% 1/10W
R518	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R617	1-216-037-00	METAL GLAZE	330 5% 1/10W
R519	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R618	1-216-431-11	METAL OXIDE	560 5% 1W F
R520	1-216-037-00	METAL GLAZE	330 5% 1/10W	R619	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R521	1-216-025-00	METAL GLAZE	100 5% 1/10W	R620	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R522	1-215-469-00	METAL	100K 1% 1/4W	R621	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R523	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R622	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R524	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R623	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R526	1-249-409-11	CARBON	220 5% 1/4W F	R624	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R527	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R625	1-215-865-11	METAL OXIDE	220 5% 1W F
R528	1-216-031-00	METAL GLAZE	180 5% 1/10W	R626	1-216-037-00	METAL GLAZE	330 5% 1/10W
R529	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R628	1-216-001-00	METAL GLAZE	10 5% 1/10W
R530	1-249-448-11	CARBON	1.2 5% 1/4W F	R629	1-216-037-00	METAL GLAZE	330 5% 1/10W
R531	1-216-099-00	METAL GLAZE	120K 5% 1/10W	R633	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R532	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R634	1-216-430-11	METAL OXIDE	390 5% 1W F
R533	1-216-295-00	METAL GLAZE	0 5% 1/10W	R635	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R534	1-216-119-00	METAL GLAZE	820K 5% 1/10W	R636	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R535	1-249-749-00	CARBON	2.2M 5% 1/4W	R643	1-217-189-21	WIREWOUND	0.12 5% 2W F
R536	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W	R651	1-216-025-00	METAL GLAZE	100 5% 1/10W
R537	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R653	1-205-758-11	WIREWOUND	100 10% 10W F
R538	1-216-101-00	METAL GLAZE	150K 5% 1/10W	R802	1-249-443-11	CARBON	0.47 5% 1/4W F
R539	1-216-101-00	METAL GLAZE	150K 5% 1/10W	R805	1-249-448-11	CARBON	1.2 5% 1/4W F
R540	1-216-013-00	METAL GLAZE	33 5% 1/10W	R806	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R541	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R807	1-215-869-11	METAL OXIDE	1K 5% 1W F
R542	1-216-308-00	METAL GLAZE	4.7 5% 1/10W	R809	1-202-821-11	SOLID	1.8K 10% 1/2W
R543	1-249-451-11	CARBON	2.2 5% 1/4W	R810	1-202-818-00	SOLID	1K 10% 1/2W
R544	1-247-745-11	CARBON	330 5% 1/2W	R811	1-215-882-00	METAL OXIDE	22 5% 2W F
R545	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R812	1-247-281-00	CARBON	51K 5% 1/2W
R546	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R815	1-215-884-11	METAL OXIDE	47 5% 2W F
R547	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R816	1-215-868-00	METAL OXIDE	680 5% 1W F
R548	1-216-349-00	METAL OXIDE	1 5% 1W F	R817	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R549	1-216-454-11	METAL OXIDE	390 5% 2W F	R820	1-249-403-11	CARBON	68 5% 1/4W F
R550	1-216-095-00	METAL GLAZE	82K 5% 1/10W	R821	1-247-725-11	CARBON	10K 5% 1/4W F
R551	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W				

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R822	1-217-778-61	FUSIBLE	1K 5% 1W F	R753	1-249-414-11	CARBON	560 5% 1/4W
R825	1-216-345-11	METAL OXIDE	0.47 5% 1W F	R754	1-249-434-11	CARBON	27K 5% 1/4W
R826	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R755	1-249-405-11	CARBON	100 5% 1/4W
R827	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R756	1-249-419-11	CARBON	1.5K 5% 1/4W
R828	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R757	1-249-405-11	CARBON	100 5% 1/4W
R829	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W	R758	1-249-409-11	CARBON	220 5% 1/4W
R831	1-249-451-11	CARBON	2.2 5% 1/4W	R760	1-249-411-11	CARBON	330 5% 1/4W
R1601	1-246-513-75	Δ CARBON	47K 5% 1/4W	R761	1-249-429-11	CARBON	10K 5% 1/4W
R1602	1-244-945-91	CARBON	1M 5% 1/2W	R762	1-247-895-00	CARBON	470K 5% 1/4W
R1603	1-217-328-11	WIREWOUND	2.7 10% 7W F	R763	1-249-429-11	CARBON	10K 5% 1/4W
R1604	1-246-513-75	CARBON	47K 5% 1/4W	R764	1-249-455-11	CARBON	4.7 5% 1/4W F
R1605	1-218-265-91	METAL GLAZE	8.2M 5% 1W	R765	1-249-455-11	CARBON	4.7 5% 1/4W F
R5501	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R766	1-247-753-11	CARBON	1.2K 5% 1/2W
R5503	1-216-001-00	METAL GLAZE	10 5% 1/10W	R767	1-247-751-11	CARBON	820 5% 1/2W
R5504	1-216-121-00	METAL GLAZE	1M 5% 1/10W	R768	1-215-887-00	METAL OXIDE	150 5% 2W F
R5505	1-216-001-00	METAL GLAZE	10 5% 1/10W	R769	1-212-889-51	FUSIBLE	220 5% 1/4W F
R5506	1-216-075-00	METAL GLAZE	12K 5% 1/10W				

<VARIABLE RESISTOR>

RV501 1-238-013-11 RES, ADJ, CARBON 2.2K
RV502 1-238-016-11 RES, ADJ, CARBON 10K
RV601 1-238-011-11 RES, ADJ, CARBON 470

<SPARK GAP>

SG801 1-519-422-11 GAP, SPARK

<THERMISTOR>

THP601 Δ 1-808-059-32 THERMISTOR, POSITIVE

*1-634-193-11 VM BOARD

<CAPACITOR>

C751	1-101-361-00	CERAMIC	150PF	5%	50V	C14	1-124-927-11	ELECT	100MF	20%	16V
C752	1-108-629-11	MYLAR	0.018MF	10%	100V	C15	1-124-927-11	ELECT	0.1MF	20%	25V
C753	1-137-047-11	FILM	0.01MF	10%	400V	C16	1-163-141-00	CERAMIC CHIP	220MF	20%	16V
C754	1-102-980-00	CERAMIC	270PF	5%	50V	C17	1-163-141-00	CERAMIC CHIP	0.1MF	5%	50V
C757	1-108-692-11	MYLAR	0.01MF	10%	200V	C18	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C759	1-124-907-11	ELECT	10MF	20%	50V	C26	1-163-038-00	CERAMIC CHIP	0.1MF	20%	25V
C760	1-124-917-11	ELECT	33MF	20%	50V	C27	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C761	1-101-006-00	CERAMIC	0.047MF	5%	50V	C28	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C762	1-137-047-11	FILM	0.01MF	10%	400V	C29	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
						C32	1-163-038-00	CERAMIC CHIP	0.1MF		25V

<COIL>

L751 1-408-413-00 INDUCTOR 22UH
L770 1-410-665-31 INDUCTOR 15UH

<TRANSISTOR>

Q751 8-729-119-78 TRANSISTOR 2SC2785-HFE
Q752 8-729-119-78 TRANSISTOR 2SC2785-HFE
Q753 8-729-140-97 TRANSISTOR 2SB734-34
Q754 8-729-140-96 TRANSISTOR 2SD774-34

<RESISTOR>

R751 1-249-418-11 CARBON 1.2K 5% 1/4W
R752 1-249-426-11 CARBON 5.6K 5% 1/4W

<CONNECTOR>

VM73 *1-568-878-51 PIN, CONNECTOR 3P
VM88 *1-568-878-51 PIN, CONNECTOR 3P

A-1645-013-A V BOARD, COMPLETE

<CAPACITOR>

C1	1-126-101-11	ELECT	100MF	20%	16V
C2	1-163-038-00	CERAMIC CHIP	0.1MF	20%	25V
C3	1-124-120-11	ELECT	220MF	20%	16V
C4	1-163-077-00	CERAMIC CHIP	0.1MF	50V	
C5	1-124-120-11	ELECT	220MF	20%	16V
C6	1-163-038-00	CERAMIC CHIP	0.1MF	20%	25V
C10	1-163-038-00	CERAMIC CHIP	0.1MF	20%	25V
C11	1-163-038-00	CERAMIC CHIP	0.1MF	20%	25V
C12	1-163-038-00	CERAMIC CHIP	0.1MF	20%	25V
C13	1-163-038-00	CERAMIC CHIP	0.1MF	20%	25V
C14	1-124-927-11	ELECT	4.7MF	20%	50V
C15	1-124-927-11	ELECT	4.7MF	20%	50V
C16	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C17	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C18	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C26	1-163-038-00	CERAMIC CHIP	0.1MF	20%	25V
C27	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C28	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C29	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C32	1-163-038-00	CERAMIC CHIP	0.1MF	20%	25V
C33	1-163-038-00	CERAMIC CHIP	0.1MF	20%	25V

<CONNECTOR>

CNV1 *1-565-393-11 CONNECTOR, BOARD TO BOARD
CNV2 *1-565-393-11 CONNECTOR, BOARD TO BOARD

<DIODE>

D1	8-719-105-91	DIODE RD5.6M-B2
D3	8-719-914-44	DIODE DAP202K
D4	8-719-400-18	DIODE MA152WK
D5	8-719-914-44	DIODE DAP202K
D6	8-719-400-18	DIODE MA152WK
D7	8-719-105-52	DIODE RD3.6M-B2

The components identified by shading and mark  are critical for safety.
Replace only with part number specified.

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H1**H2****J2****J1**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
S1653	1-571-532-21	SWITCH, TACTIL		C218	1-137-102-11	FILM	0.022MF 10% 250V
		*****		C219	1-137-102-11	FILM	0.022MF 10% 250V
		*****		C220	1-108-686-11	MYLAR	0.0033MF 10% 100V
*1-638-392-11	H2 BOARD	*****		C221	1-108-686-11	MYLAR	0.0033MF 10% 100V
*4-374-987-01	GUIDE, LIGHT			C222	1-137-095-11	FILM	0.056MF 10% 100V
*4-381-686-01	BRACKET (B), LIGHT GUIDE			C223	1-137-095-11	FILM	0.056MF 10% 100V
		<DIODE>		C224	1-137-047-11	FILM	0.01MF 10% 400V
D1651	8-719-948-31	DIODE LD-201VR		C225	1-136-173-00	FILM	0.47MF 5% 50V
*4-201-076-01	HOLDER, LED; D1651			C226	1-136-173-00	FILM	0.47MF 5% 50V
D1652	8-719-948-31	DIODE LD-201VR		C227	1-137-102-11	FILM	0.022MF 10% 250V
*4-201-076-01	HOLDER, LED; D1652			C228	1-137-104-11	FILM	0.033MF 10% 250V
D1654	8-719-948-31	DIODE LD-201VR		C229	1-137-049-11	FILM	0.015MF 10% 400V
*4-201-076-01	HOLDER, LED; D1654			C230	1-137-049-11	FILM	0.015MF 10% 400V
		<CONNECTOR>		C231	1-124-902-00	ELECT	0.47MF 20% 50V
H2-2	*1-568-882-51	PIN, CONNECTOR 7P		C232	1-124-907-11	ELECT	10MF 20% 50V
		<IC>		C233	1-163-005-11	CERAMIC CHIP	470PF 10% 50V
IC1651	8-741-101-75	IC SBX1610-11		C234	1-163-005-11	CERAMIC CHIP	470PF 10% 50V
		<RESISTOR>		C235	1-163-005-11	CERAMIC CHIP	470PF 10% 50V
R1662	1-249-413-11	CARBON	470 5% 1/4W	C236	1-163-005-11	CERAMIC CHIP	470PF 10% 50V
		*****		C237	1-124-902-00	ELECT	0.47MF 20% 50V
*1-638-393-11	J2 BOARD	*****		C238	1-163-125-00	CERAMIC CHIP	220PF 5% 50V
		<CAPACITOR>		C239	1-126-103-11	ELECT	470MF 20% 16V
C1751	1-101-005-00	CERAMIC	0.022MF	C240	1-163-018-00	CERAMIC CHIP	0.0056MF 10% 50V
C1752	1-101-005-00	CERAMIC	0.022MF				
		*****		C241	1-163-018-00	CERAMIC CHIP	0.0056MF 10% 50V
		<CONNECTOR>		C242	1-163-033-00	CERAMIC CHIP	0.022MF 50V
J2-1	1-537-339-11	TERMINAL BOARD		C243	1-163-033-00	CERAMIC CHIP	0.022MF 50V
J2-4	*1-564-519-11	PLUG, CONNECTOR 4P		C244	1-163-033-00	CERAMIC CHIP	0.022MF 50V
J2-6	*1-560-278-21	PLUG, CONNECTOR 4P		C245	1-163-033-00	CERAMIC CHIP	0.022MF 50V
		<COIL>		C1401	1-124-907-11	ELECT	10MF 20% 50V
L1751	1-412-240-11	INDUCTOR, WIDE BAND		C1402	1-126-103-11	ELECT	470MF 20% 16V
L1752	1-412-240-11	INDUCTOR, WIDE BAND		C1403	1-163-003-11	CERAMIC CHIP	330PF 10% 50V
		*****		C1404	1-124-902-00	ELECT	0.47MF 20% 50V
A-1651-020-A	J1 BOARD, COMPLETE	*****		C1405	1-136-017-00	CERAMIC CHIP	0.0047MF 50V
		<CAPACITOR>		C1406	1-124-902-00	ELECT	0.47MF 20% 50V
C203	1-124-925-11	ELECT	2.2MF	C1407	1-124-910-11	ELECT	47MF 20% 50V
C205	1-124-927-11	ELECT	4.7MF	C1408	1-124-122-11	ELECT	100MF 20% 50V
C206	1-124-925-11	ELECT	2.2MF	C1409	1-126-233-11	ELECT	22MF 20% 50V
C207	1-124-927-11	ELECT	4.7MF	C1410	1-124-907-11	ELECT	10MF 20% 50V
C213	1-126-233-11	ELECT	22MF	C1411	1-124-907-11	ELECT	10MF 20% 50V
C214	1-137-045-11	FILM	0.0068MF	C1412	1-124-910-11	ELECT	47MF 20% 50V
C217	1-137-045-11	FILM	0.0068MF	C1413	1-124-910-11	ELECT	47MF 20% 50V
		*****		C1414	1-124-907-11	ELECT	10MF 20% 50V
		<COIL>		C1415	1-124-902-00	ELECT	0.47MF 20% 50V
		*****		C1416	1-124-902-00	ELECT	0.47MF 20% 50V
		<CAPACITOR>		C1417	1-124-120-11	ELECT	220MF 20% 16V
		*****		C1418	1-163-003-11	CERAMIC CHIP	330PF 10% 50V
		<COIL>		C1419	1-163-003-11	CERAMIC CHIP	330PF 10% 50V
		*****		C1420	1-124-902-00	ELECT	0.47MF 20% 50V
		<CAPACITOR>		C1421	1-124-902-00	ELECT	0.47MF 20% 50V
		*****		C1422	1-136-017-00	CERAMIC CHIP	0.0047MF 50V
		<COIL>		C1423	1-136-017-00	CERAMIC CHIP	0.0047MF 50V
		*****		C1424	1-136-017-00	CERAMIC CHIP	0.0047MF 50V
		<COIL>		C1425	1-124-902-00	ELECT	0.47MF 20% 50V
		*****		C1426	1-124-902-00	ELECT	0.47MF 20% 50V
		<CAPACITOR>		C1427	1-136-017-00	CERAMIC CHIP	0.0047MF 50V
		*****		C1428	1-136-017-00	CERAMIC CHIP	0.0047MF 50V
		<COIL>		C1429	1-136-017-00	CERAMIC CHIP	0.0047MF 50V
		*****		C1430	1-163-003-11	CERAMIC CHIP	330PF 10% 50V
		<CAPACITOR>		C1431	1-126-529-11	ELECT	0.47MF 20% 50V
		*****		C1432	1-124-902-00	ELECT	0.47MF 20% 50V
		<COIL>		C1433	1-124-122-11	ELECT	100MF 20% 50V
		*****		C1436	1-163-009-11	CERAMIC CHIP	0.001MF 10% 50V
		<COIL>		C1437	1-163-009-11	CERAMIC CHIP	0.001MF 10% 50V
		*****		C1438	1-137-047-11	FILM	0.01MF 10% 400V
		<COIL>		C1439	1-137-047-11	FILM	0.01MF 10% 400V
		*****		C1440	1-124-907-11	ELECT	10MF 20% 50V
		<COIL>		C1441	1-124-907-11	ELECT	10MF 20% 50V
		*****		C1442	1-124-902-00	ELECT	0.47MF 20% 50V

J1

REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
C1443	1-124-902-00	ELECT	0.47MF	20%	50V				
C1444	1-124-910-11	ELECT	47MF	20%	50V				
C1445	1-102-824-00	CERAMIC	470PF	5%	50V				
C1446	1-102-824-00	CERAMIC	470PF	5%	50V				
C1501	1-124-927-11	ELECT	4.7MF	20%	50V				
C1502	1-124-903-11	ELECT	1MF	20%	50V				
C1503	1-108-680-11	MYLAR	0.001MF	10%	100V				
C1504	1-124-910-11	ELECT	47MF	20%	50V				
C1505	1-137-094-11	FILM	0.047MF	10%	100V	Q201	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C1507	1-108-686-11	MYLAR	0.0033MF	10%	100V	Q202	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C1508	1-124-903-11	ELECT	1MF	20%	50V	Q1401	8-729-216-22	TRANSISTOR 2SA1162-G	
C1509	1-124-903-11	ELECT	1MF	20%	50V	Q1402	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C1511	1-124-927-11	ELECT	4.7MF	20%	50V	Q1403	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C1513	1-163-105-00	CERAMIC CHIP	33PF	5%	50V	Q1404	8-729-216-22	TRANSISTOR 2SA1162-G	
<CONNECTOR>									
CN1401	1-565-838-11	JACK BLOCK, PIN 2P				<RESISTOR>			
J1-41	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P				R201	1-216-079-00	METAL GLAZE	18K 5% 1/10W
J1-43	*1-564-524-11	PLUG, CONNECTOR 9P				R202	1-216-206-00	METAL GLAZE	2.2K 5% 1/8W
J1-44	*1-564-527-11	PLUG, CONNECTOR 12P				R203	1-216-075-00	METAL GLAZE	12K 5% 1/10W
J1-51	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P				R204	1-216-085-00	METAL GLAZE	33K 5% 1/10W
						R205	1-216-085-00	METAL GLAZE	33K 5% 1/10W
<DIODE>									
D201	8-719-110-14	DIODE RD9.1ES-B3				R206	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
D202	8-719-110-14	DIODE RD9.1ES-B3				R207	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
D205	8-719-110-03	DIODE RD7.5ES-B2				R208	1-216-077-00	METAL GLAZE	15K 5% 1/10W
D206	8-719-110-03	DIODE RD7.5ES-B2				R209	1-216-081-00	METAL GLAZE	22K 5% 1/10W
D1401	8-719-110-03	DIODE RD7.5ES-B2				R210	1-216-077-00	METAL GLAZE	15K 5% 1/10W
D1403	8-719-110-03	DIODE RD7.5ES-B2				R211	1-216-097-00	METAL GLAZE	100K 5% 1/10W
D1404	8-719-110-03	DIODE RD7.5ES-B2				R212	1-216-081-00	METAL GLAZE	22K 5% 1/10W
D1405	8-719-110-03	DIODE RD7.5ES-B2				R213	1-216-077-00	METAL GLAZE	15K 5% 1/10W
D1406	8-719-110-03	DIODE RD7.5ES-B2				R214	1-216-033-00	METAL GLAZE	220 5% 1/10W
D1407	8-719-921-77	DIODE MTZN-10C				R215	1-216-081-00	METAL GLAZE	22K 5% 1/10W
D1408	8-719-110-14	DIODE RD9.1ES-B3				R216	1-216-081-00	METAL GLAZE	22K 5% 1/10W
D1409	8-719-110-14	DIODE RD9.1ES-B3				R217	1-216-077-00	METAL GLAZE	15K 5% 1/10W
D1410	8-719-110-14	DIODE RD9.1ES-B3				R218	1-216-033-00	METAL GLAZE	220 5% 1/10W
D1415	8-719-110-03	DIODE RD7.5ES-B2				R219	1-216-073-00	METAL GLAZE	10K 5% 1/10W
D1418	8-719-110-03	DIODE RD7.5ES-B2				R220	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
D1419	8-719-110-03	DIODE RD7.5ES-B2				R221	1-216-041-00	METAL GLAZE	470 5% 1/10W
D1420	8-719-110-03	DIODE RD7.5ES-B2				R222	1-216-041-00	METAL GLAZE	470 5% 1/10W
D1421	8-719-110-03	DIODE RD7.5ES-B2				R223	1-216-049-00	METAL GLAZE	1K 5% 1/10W
D1422	8-719-110-03	DIODE RD7.5ES-B2				R224	1-216-049-00	METAL GLAZE	1K 5% 1/10W
D1423	8-719-110-03	DIODE RD7.5ES-B2				R225	1-216-049-00	METAL GLAZE	1K 5% 1/10W
D1424	8-719-110-03	DIODE RD7.5ES-B2				R226	1-216-049-00	METAL GLAZE	1K 5% 1/10W
D1425	8-719-110-03	DIODE RD7.5ES-B2				R227	1-216-033-00	METAL GLAZE	220 5% 1/10W
D1426	8-719-110-03	DIODE RD7.5ES-B2				R228	1-216-033-00	METAL GLAZE	220 5% 1/10W
D1501	8-719-300-33	DIODE RU-3AM				R229	1-216-075-00	METAL GLAZE	12K 5% 1/10W
D1502	8-719-911-19	DIODE ISS119				R230	1-216-079-00	METAL GLAZE	18K 5% 1/10W
D1503	8-719-911-19	DIODE ISS119				R231	1-216-073-00	METAL GLAZE	10K 5% 1/10W
D1504	8-719-911-19	DIODE ISS119				R232	1-216-073-00	METAL GLAZE	10K 5% 1/10W
D1505	8-719-911-19	DIODE ISS119				R233	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
D1506	8-719-982-33	DIODE MTZJ-36D				R234	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
D1507	8-719-911-19	DIODE ISS119				R235	1-216-295-00	METAL GLAZE	0 5% 1/10W
D1510	8-719-911-19	DIODE ISS119				R236	1-216-295-00	METAL GLAZE	0 5% 1/10W
<IC>									
IC201	8-759-013-17	IC TDA6200				R240	1-216-033-00	METAL GLAZE	220 5% 1/10W
IC1401	8-752-053-17	IC CXA1114P				R241	1-216-091-00	METAL GLAZE	56K 5% 1/10W
IC1402	8-759-946-32	IC TEA2014A				R242	1-216-091-00	METAL GLAZE	56K 5% 1/10W
IC1403	8-759-140-53	IC UPD4053BC				R243	1-216-075-00	METAL GLAZE	12K 5% 1/10W
IC1501	8-759-942-16	IC TBA2031A				R244	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
						R245	1-216-075-00	METAL GLAZE	12K 5% 1/10W
						R246	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
						R247	1-216-075-00	METAL GLAZE	12K 5% 1/10W
						R248	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
						R249	1-216-075-00	METAL GLAZE	12K 5% 1/10W
						R250	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W

J1

IFG

REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK		
R1400	1-216-295-00	METAL GLAZE	0	5%	1/10W	R1473	1-216-023-00	METAL GLAZE	82	5%	1/10W
R1401	1-216-023-00	METAL GLAZE	82	5%	1/10W	R1474	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1402	1-216-170-00	METAL GLAZE	68	5%	1/8W	R1476	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R1403	1-216-089-00	METAL GLAZE	47K	5%	1/10W	R1477	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R1404	1-216-178-00	METAL GLAZE	150	5%	1/8W	R1478	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1405	1-249-434-11	CARBON	27K	5%	1/4W	R1480	1-216-190-00	METAL GLAZE	470	5%	1/8W
R1407	1-216-113-00	METAL GLAZE	470K	5%	1/10W	R1482	1-216-178-00	METAL GLAZE	150	5%	1/8W
R1408	1-216-089-00	METAL GLAZE	47K	5%	1/10W	R1483	1-216-178-00	METAL GLAZE	150	5%	1/8W
R1409	1-216-041-00	METAL GLAZE	470	5%	1/10W	R1484	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1410	1-216-089-00	METAL GLAZE	47K	5%	1/10W	R1485	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1411	1-216-041-00	METAL GLAZE	470	5%	1/10W	R1486	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1412	1-216-089-00	METAL GLAZE	47K	5%	1/10W	R1487	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1413	1-216-113-00	METAL GLAZE	470K	5%	1/10W	R1488	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1414	1-216-089-00	METAL GLAZE	47K	5%	1/10W	R1489	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1415	1-216-083-00	METAL GLAZE	27K	5%	1/10W	R1501	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1416	1-216-083-00	METAL GLAZE	27K	5%	1/10W	R1502	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R1417	1-216-023-00	METAL GLAZE	82	5%	1/10W	R1503	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1418	1-247-738-11	CARBON	82	5%	1/2W F	R1504	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R1419	1-216-295-00	METAL GLAZE	0	5%	1/10W	R1505	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1420	1-216-295-00	METAL GLAZE	0	5%	1/10W	R1506	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1421	1-216-295-00	METAL GLAZE	0	5%	1/10W	R1509	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R1422	1-216-025-00	METAL GLAZE	100	5%	1/10W	R1510	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R1423	1-216-083-00	METAL GLAZE	27K	5%	1/10W	R1511	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R1424	1-216-083-00	METAL GLAZE	27K	5%	1/10W	R1512	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1425	1-216-045-00	METAL GLAZE	680	5%	1/10W	R1513	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R1426	1-216-025-00	METAL GLAZE	100	5%	1/10W	R1514	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R1427	1-216-001-00	METAL GLAZE	10	5%	1/10W	R1516	1-216-079-00	METAL GLAZE	18K	5%	1/10W
R1428	1-216-113-00	METAL GLAZE	470K	5%	1/10W	R1517	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1429	1-216-113-00	METAL GLAZE	470K	5%	1/10W	R1519	1-216-101-00	METAL GLAZE	150K	5%	1/10W
R1430	1-216-170-00	METAL GLAZE	68	5%	1/8W	R1520	1-216-111-00	METAL GLAZE	390K	5%	1/10W
R1431	1-216-041-00	METAL GLAZE	470	5%	1/10W	R1521	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W
R1432	1-216-041-00	METAL GLAZE	470	5%	1/10W	R1550	1-216-349-00	METAL OXIDE	1	5%	1W F
R1433	1-216-033-00	METAL GLAZE	220	5%	1/10W	R1556	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R1434	1-249-393-11	CARBON	10	5%	1/4W F						
R1437	1-249-434-11	CARBON	27K	5%	1/4W						
R1440	1-216-045-00	METAL GLAZE	680	5%	1/10W						
R1441	1-216-045-00	METAL GLAZE	680	5%	1/10W						
R1442	1-216-089-00	METAL GLAZE	47K	5%	1/10W						
R1443	1-216-089-00	METAL GLAZE	47K	5%	1/10W						
R1444	1-216-033-00	METAL GLAZE	220	5%	1/10W						
R1445	1-216-095-00	METAL GLAZE	82K	5%	1/10W						
R1446	1-216-033-00	METAL GLAZE	220	5%	1/10W						
R1447	1-216-033-00	METAL GLAZE	220	5%	1/10W						
R1448	1-216-025-00	METAL GLAZE	100	5%	1/10W						
R1449	1-216-023-00	METAL GLAZE	82	5%	1/10W						
R1452	1-216-049-00	METAL GLAZE	1K	5%	1/10W						
R1453	1-216-049-00	METAL GLAZE	1K	5%	1/10W						
R1454	1-216-180-00	METAL GLAZE	180	5%	1/8W						
R1455	1-216-180-00	METAL GLAZE	180	5%	1/8W						
R1457	1-216-025-00	METAL GLAZE	100	5%	1/10W						
R1459	1-216-025-00	METAL GLAZE	100	5%	1/10W						
R1460	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W						
R1461	1-216-190-00	METAL GLAZE	470	5%	1/8W						
R1462	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	C1	1-164-232-11	CERAMIC CHIP	0.01MF	50V	
R1463	1-216-049-00	METAL GLAZE	1K	5%	1/10W	C2	1-164-232-11	CERAMIC CHIP	0.01MF	50V	
R1464	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	C3	1-164-232-11	CERAMIC CHIP	0.01MF	50V	
R1465	1-216-023-00	METAL GLAZE	82	5%	1/10W	C4	1-164-232-11	CERAMIC CHIP	0.01MF	50V	
R1466	1-216-033-00	METAL GLAZE	220	5%	1/10W	C5	1-164-232-11	CERAMIC CHIP	0.01MF	50V	
R1467	1-216-025-00	METAL GLAZE	100	5%	1/10W	C6	1-164-232-11	CERAMIC CHIP	0.01MF	50V	
R1468	1-216-025-00	METAL GLAZE	100	5%	1/10W	C7	1-124-907-11	ELECT	1MF	20% 50V	
R1469	1-216-025-00	METAL GLAZE	100	5%	1/10W	C8	1-124-907-11	ELECT	10MF	20% 50V	
R1470	1-216-025-00	METAL GLAZE	100	5%	1/10W	C9	1-130-471-00	MYLAR	0.001MF	5% 50V	
R1471	1-216-023-00	METAL GLAZE	82	5%	1/10W	C10	1-163-121-00	CERAMIC CHIP	150PF	5% 50V	
R1472	1-216-023-00	METAL GLAZE	82	5%	1/10W	C11	1-163-119-00	CERAMIC CHIP	120PF	5% 50V	

<VARIABLE RESISTOR>

RV1501 1-238-023-11 RES, ADJ, CARBON 470K
 RV1502 1-238-016-11 RES, ADJ, CARBON 10K
 RV1503 1-238-017-11 RES, ADJ, CARBON 22K
 RV1504 1-238-012-11 RES, ADJ, CARBON 1K
 RV1505 1-238-023-11 RES, ADJ, CARBON 470K

RV1506 1-238-017-11 RES, ADJ, CARBON 22K
 RV1507 1-238-009-11 RES, ADJ, CARBON 220
 RV1508 1-238-016-11 RES, ADJ, CARBON 10K
 RV1509 1-238-023-11 RES, ADJ, CARBON 470K

A-1654-004-A IFG BOARD, COMPLETE

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

IFG

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C12	1-136-298-00	FILM	0.0033MF	2%	100V		
C13	1-124-477-11	ELECT	47MF	20%	16V		
C14	1-124-477-11	ELECT	47MF	20%	16V		
C15	1-124-477-11	ELECT	47MF	20%	16V		
C16	1-124-477-11	ELECT	47MF	20%	16V		
C17	1-124-907-11	ELECT	10MF	20%	50V		
C18	1-137-047-11	FILM	0.01MF	10%	400V		
C19	1-137-047-11	FILM	0.01MF	10%	400V		
C20	1-126-233-11	ELECT	22MF	20%	50V		
C21	1-126-233-11	ELECT	22MF	20%	50V		
C22	1-137-098-11	FILM	0.1MF	10%	100V		
C23	1-137-031-11	FILM	0.22MF	10%	100V		
C24	1-124-034-51	ELECT	33MF	20%	16V		
C25	1-137-102-11	FILM	0.022MF	10%	250V		
C26	1-137-094-11	FILM	0.047MF	10%	100V		
C27	1-124-903-11	ELECT	1MF	20%	50V		
C28	1-163-109-00	CERAMIC CHIP	47PF	5%	50V		
C29	1-124-903-11	ELECT	1MF	20%	50V		
C30	1-124-903-11	ELECT	1MF	20%	50V		
C31	1-137-047-11	FILM	0.01MF	10%	400V		
C32	1-130-479-00	MYLAR	0.0047MF	5%	50V		
C33	1-163-081-00	CERAMIC CHIP	0.22MF		25V		
C34	1-137-031-11	FILM	0.22MF	10%	100V		
C35	1-124-907-11	ELECT	10MF	20%	50V		
C36	1-163-119-00	CERAMIC CHIP	120PF	5%	50V		
C37	1-124-477-11	ELECT	47MF	20%	16V		
C38	1-124-477-11	ELECT	47MF	20%	16V		
C39	1-163-133-00	CERAMIC CHIP	470PF	5%	50V		

<FILTER>

CDA1 1-404-751-11 DISCRIMINATOR, CERAMIC
 CDA2 1-404-750-11 DISCRIMINATOR, CERAMIC
 SFT1 1-527-840-00 FILTER, CERAMIC
 SFT2 1-527-839-00 FILTER, CERAMIC

<DIODE>

D3 8-719-400-18 DIODE MA152WK

<IC>

IC1 8-759-003-90 IC TBA129
 IC2 8-759-003-90 IC TBA129
 IC3 8-759-030-48 IC TDA6600-2
 IC4 8-759-513-48 IC TDA2595/V9

<CONNECTOR>

IFG13 *1-565-488-11 CONNECTOR, BOARD TO BOARD 12P

<COIL>

L1	1-408-410-00	INDUCTOR	12UH
L2	1-408-410-00	INDUCTOR	12UH
L3	1-410-064-11	INDUCTOR	2.7MMH
L4	1-408-421-00	INDUCTOR	100UH
L5	1-408-421-00	INDUCTOR	100UH

<TRANSISTOR>

Q2 8-729-901-00 TRANSISTOR DTC124EK
 Q3 8-729-216-22 TRANSISTOR 2SA1162-G
 Q4 8-729-901-00 TRANSISTOR DTC124EK

<RESISTOR>

JR8	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR10	1-216-296-00	METAL GLAZE	0	5%	1/8W
R1	1-216-045-00	METAL GLAZE	680	5%	1/10W
R2	1-216-043-00	METAL GLAZE	560	5%	1/10W
R3	1-216-043-00	METAL GLAZE	560	5%	1/10W
R5	1-216-045-00	METAL GLAZE	680	5%	1/10W
R6	1-216-043-00	METAL GLAZE	560	5%	1/10W
R7	1-216-043-00	METAL GLAZE	560	5%	1/10W
R9	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R11	1-216-095-00	METAL GLAZE	82K	5%	1/10W
R12	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R13	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R15	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R16	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R17	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R18	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W
R19	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R20	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R22	1-216-099-00	METAL GLAZE	120K	5%	1/10W
R24	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R25	1-216-077-00	METAL GLAZE	15K	5%	1/10W

<VARIABLE RESISTOR>

RV1 1-238-016-11 RES, ADJ, CARBON 10K
 RV2 1-238-019-11 RES, ADJ, CARBON 47K

MISCELLANEOUS

Δ .1-426-398-11 COIL, DEMAGNETIZATION
 Δ .1-451-313-21 DEFLECTION YOKE (Y29EXA)
 1-452-032-00 MAGNET, DISK; 10MM ϕ
 1-452-094-00 MAGNET, ROTATABLE DISK; 15MM ϕ
 Δ .1-452-509-42 NECK ASSY, PICTURE TUBE (NA-308)

1-544-475-11 SPEAKER

Δ .1-590-501-11 CORD, POWER(WITH NOISE FILTER)

V901 Δ .8-733-823-05 PICTURE TUBE (A68JYK60X)

ACCESSORIES AND PACKING MATERIALS

PART NO.

DESCRIPTION

REMARK

4-200-599-11 MANUAL, INSTRUCTION (GERMAN/ENGLISH/FRENCH/ITALIAN/DUTCH/PORTUGUESE)
 \ast 4-031-996-01 CUSHION (UPPER) (ASSY)
 \ast 4-031-997-01 CUSHION (LOWER) (ASSY)
 \ast 4-031-998-01 INDIVIDUAL CARTON

4-384-027-01 BAG, PROTECTION

REMOTE COMMANDER

1-465-796-21 CONTROL UNIT, REMOTE (RM-816)
 4-031-670-01 COVER, POCKET (FOR RM-816)